

Ch. 2 Review

512. yes

513. no

514. no

515. yes

516.  $x = 12$

517.  $y = -8$

518.  $a = \frac{4}{3}$

519.  $n = 1.5$

520.  $u = 17$

521.  $x = 5$

522.  $c = \frac{12}{11}$

523.  $p = 18.8$

524.  $n = 44$

525.  $y = -25$

526.  $f = \frac{10}{3}$

527.  $d = 12.1$

528.  $y = 4$

529.  $x = -8$

530.  $n = -8$

531.  $p = -28$

532.  $-6 + m = 25; m = 31$

533.  $n - 4 = 13; n = 17$

534. 8 years old

535. 161 pounds

536. \$56.00

537. \$131.19

538.  $x = 9$

539.  $a = -5$

540.  $p = 21$

541.  $y = -4$

542.  $n = 108$

543.  $y = -300$

544.  $x = 48$

545.  $u = \frac{3}{2}$

546.  $m = 4$

547.  $c = 324$

548.  $x = 15$

549.  $y = \frac{11}{8}$

550.  $r = 3$

551.  $x = -1$

552.  $n = 48$

553.  $d = 3$

554.  $143 = -11y; y = -13$

555.  $\frac{b}{9} = -27; b = -243$

556.  $q - \frac{1}{4} = 1; q = \frac{1}{3}$

557.  $s - \frac{1}{12} = \frac{1}{4}; s = \frac{1}{3}$

558. \$1.75

559. \$32

560.  $p = 5$

561.  $w = 7$

562.  $x = -22$

563.  $n = -4$

564.  $y = -13$

565.  $a = -7$

566.  $k = -5$

567.  $x = \frac{3}{8}$

568.  $x = 6$

569.  $n = -5$

570.  $u = -7$

571.  $c = 32$

572.  $x = -2$

573.  $p = \frac{13}{2}$

574.  $s = -22$

575.  $n = 12$

576.  $y = 12$

577.  $m = -14$

578.  $y = 26$

579.  $q = 18$

580.  $r = 38$

581.  $x = -1$

582.  $n = 1$

583.  $k = \frac{3}{4}$

584. identity; all real numbers

585. contradiction; no solution

586. conditional;  $m = \frac{11}{4}$

587. identity; all real numbers

588.  $n = 2$

589.  $x = 15$

590.  $a = \frac{14}{3}$

591.  $k = 41$

592.  $x = 4$

593.  $y = -1$

594.  $x = 5$

595.  $u = -85$

596.  $p = -20$

597.  $d = -20$

598. 450 miles

599. 5 hours  
 600. 68 mph  
 601. 37.5 miles

602. (a)  $t = 8.5h$ ; (b)  $t = \frac{D}{r}$

603. (a)  $r = 82$  mph; (b)  $r = \frac{D}{t}$

604. (a)  $b = 30$ ; (b)  $b = \frac{2A}{h}$

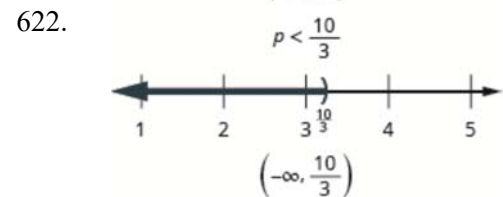
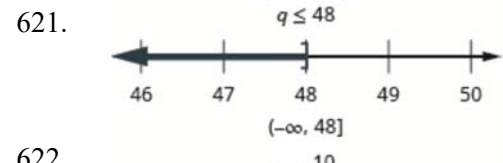
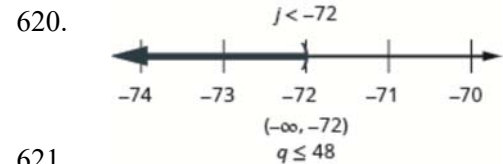
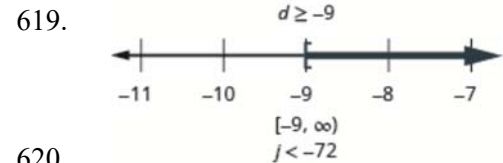
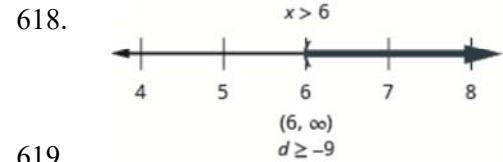
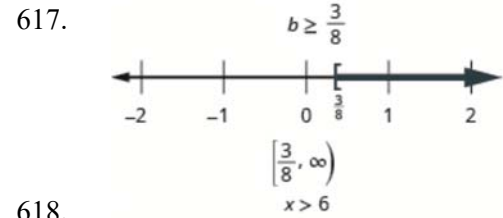
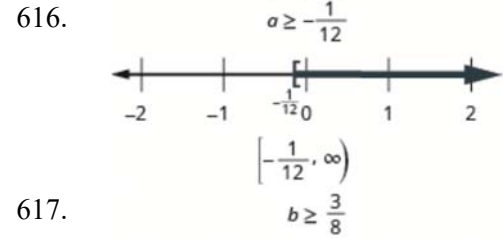
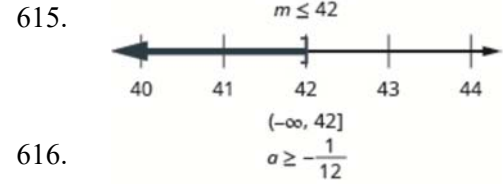
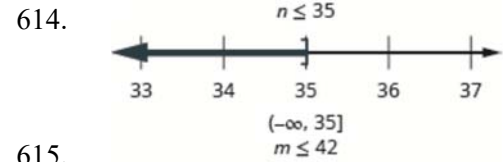
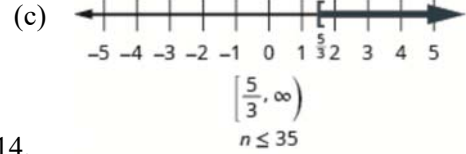
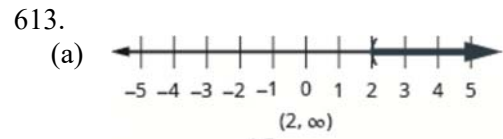
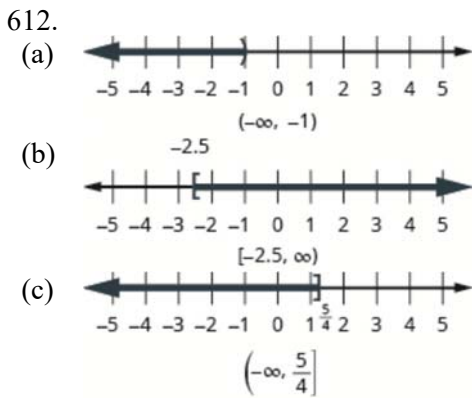
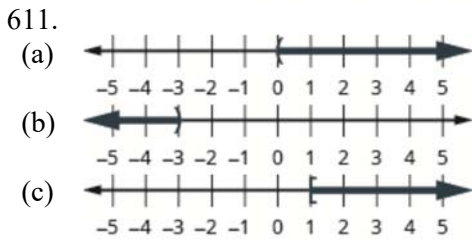
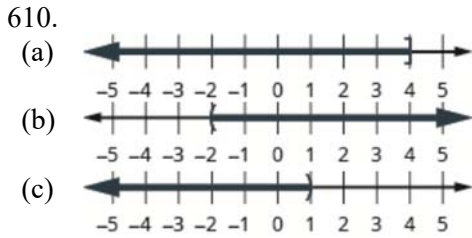
605. (a)  $h = 17$  (b)  $h = \frac{2A}{b}$

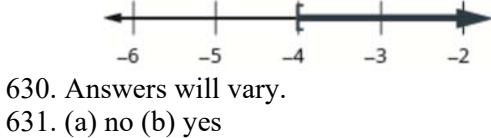
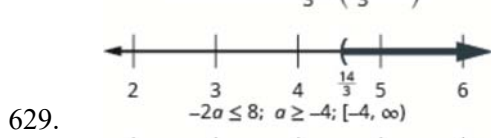
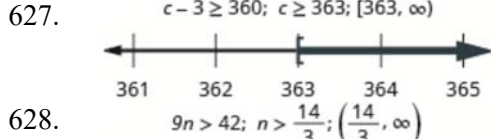
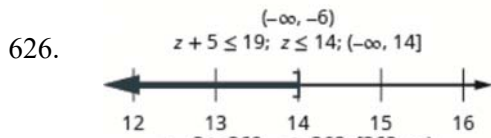
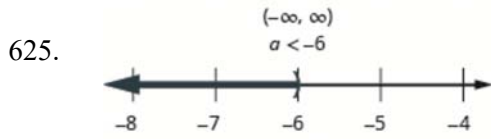
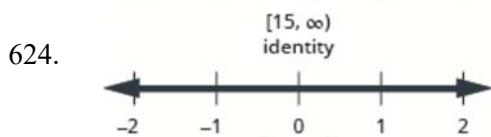
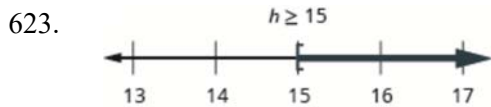
606. (a) \$12,200 (b)  $P = \frac{I}{rt}$

607. (a)  $y = \frac{14}{3}$  (b)  $y = \frac{6-4x}{3}$

608.  $c = 180 - a - b$

609.  $H = \frac{V}{LW}$





630. Answers will vary.

631. (a) no (b) yes

632.  $n = -\frac{5}{12}$

633.  $c = 32$

634.  $y = 6$

635.  $x = -5$

636.  $a = -8$

637.  $x = 9$

638.  $x = 12.0$

639.  $y = -4$

640.  $n = -5$

641.  $m = 9$

642.  $x = -4$

643.  $d = -14$

644.  $m = \frac{5}{3}$

645.  $x = -\frac{1}{3}$

646.  $a = -39$

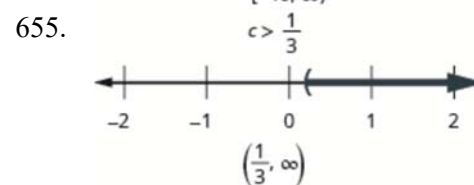
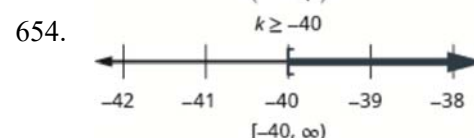
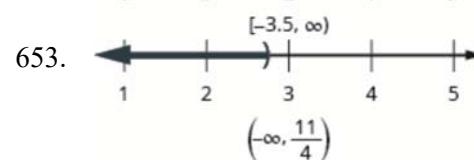
647.  $p = \frac{10}{3}$

648.  $d = 6$

649. contradiction; no solution

650.  $u = \frac{17}{14}$

651. (a)  $y = 4$  (b)  $y = \frac{5-x}{2}$



656.  $2x - 4 = 16; x = 10$

657.  $n + 15 \geq 48; n \geq 33$

658.  $g - 3.47 = 25.82$ ; He paid \$29.29 last week.

659.  $120 = \frac{2}{3}p$ ; The original price was \$180.

660.  $506 = \frac{23}{3}r$ ; The rate of the bus was 66 miles per hour.