

Answer Key for 2-1 worksheet

1) If $2x - 8 = 26$, then $x = 17$

2) If it is raining, then the grass is wet

3) If a number is divisible by 10, then it is divisible by 5 (True)

Inverse:

If a number is not divisible by 10, then it is not divisible by 5 (False)

Converse:

If a number is divisible by 5, then it is divisible by 10 (False)

Contra-positive:

If a number is not divisible by 5, then it is not divisible by 10 (True)

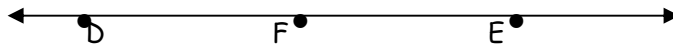
4) If $m\angle 1 = 135^\circ$, then $m\angle 1$ is obtuse (True)

Converse:

If $m\angle 1$ is obtuse, then $m\angle 1 = 135^\circ$ (False)

5) answers vary ex: $x = -10$

6)



Answer Key for Lesson 2-2 Worksheet

1) addition property

2) division property

3) multiplication property

4) subtraction property

5) distributive property

6) transitive property

7) symmetric property

8) distributive property

addition property

subtraction property

division property

Answer Key for Lesson 2-3 Worksheet

1) Definition of a midpoint

2) Definition of an \angle bisector

3) Definition of an \angle bisector

4) Definition of a linear pair

5) Definition of a midpoint

6) Midpoint theorem

7) Angle addition postulate

8) Segment addition postulate

9) 75°

10) 110°

11) 52°

12) original $\angle 42^\circ$

bisection two 21° \angle 's

13) a) 12

b) 28

c) 6

d) 22

Answer key for practice worksheet 2-4:

- 1) comp. = 17.5° supp. = 107.5°
2) comp. = $90 - 2y$ supp. = $180 - 2y$
3) comp. = 45° each supp. = 90° each
4) $\angle AFD$ 5) $\angle AFE$ & $\angle EFD$ 6) $\angle AFB$ & $\angle AFD$
7) $\angle BFC$ & $\angle DFC$ or $\angle EFD$ & $\angle EFB$ 8) $\angle BFC$ & $\angle EFD$
9) $\angle EFB$ & $\angle DFC$ 10) 35° 11) 155° 12) 25°
13) 120° 14) 60° 15) 85° 16) $x = 25$
17) $x = 47$ and $y = 75$ 18) $x = 29^\circ$ and comp = 61°
19) $x = 36^\circ$ and supp. = 144°

Answer key for practice worksheet 2-4 part II:

- 1) 60° 2) 36° 3) 29° comp. = 61°
4) 120° 5) 56° supp. = 124°
6) 72° supp = 108° comp = 18°
7) 3 8) 5

Answer Key for 2-5 Practice PDF Assignment

- 1) $d = 49^\circ$ $e = 131^\circ$ $f = 49^\circ$ 1) $x = 15$
3) $i = 129^\circ$ $j = 112^\circ$ 2) $x = 135$
4) $k = 90^\circ$ $l = 116^\circ$ $m = 64^\circ$ $n = 86^\circ$ 3) $x = 15$
5) $o = 13^\circ$ $p = 50^\circ$ $q = 91^\circ$ 4) $x = 40$
6) $a = 120^\circ$ $b = 60^\circ$ $c = 140^\circ$ 5) $x = 42$
8) $t = 29^\circ$ $u = 29^\circ$ 6) $x = 16$
9) $v = 39^\circ$ $w = 59^\circ$ $x = 121^\circ$ 7) $x = 33$
10) $y = 59^\circ$ $z = 93^\circ$ 8) $x = 13$
11) $a = 42^\circ$ $b = 48^\circ$ $c = 132^\circ$ 9) $x = 23$
12) $a = 60^\circ$ $b = 50^\circ$ $c = 80^\circ$ $d = 100^\circ$ 10) $x = 12$
2) $h = 67^\circ$ $g = 23^\circ$ 11) $x = 11$
7) $r = 79^\circ$ $s = 63^\circ$ 12) $x = 2$