

Q4 - Homework #1 - Worksheet 11-3 to 11-5

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{a} = 5$

2) $5 + \sqrt{m} = 8$

3) $\sqrt{v} = \sqrt{2v - 7}$

4) $\sqrt{x + 1} = \sqrt{2x - 6}$

5) $\sqrt{72 - r} = r$

6) $\sqrt{12 - m} = m$

7) $\sqrt{-1 - 2x} = x$

8) $n = \sqrt{-35 + 12n}$

9) $n = \sqrt{2 - n}$

10) $\sqrt{20 - b} = b$

11) Find the missing right triangle measure:
b = 20 c = 29 a = ?

12) Find the missing right triangle measure:
a = 7 b = 24 c = ?

13) Find the missing right triangle measure:
a = $\sqrt{33}$ b = 4 c = ?

14) Find the missing right triangle measure:
a = 1 b = 1 c = ?

Find the distance between each pair of points.

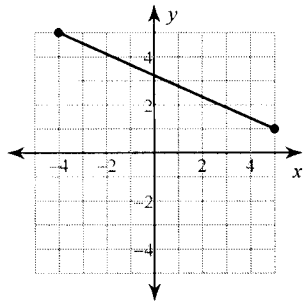
15) $(7, -6), (3, -2)$

16) $(-7, -1), (0, -2)$

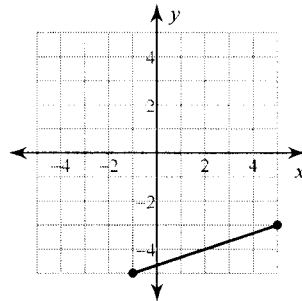
17) $(-1, -1), (3, -4)$

18) $(-4, 3), (6, -3)$

19)



20)



21) Find the possible values of X if the points $(0,0), (X,3)$ are 5 units apart.

Find the midpoint of the line segment with the given endpoints.

22) $(-2, 7), (-5, -6)$

23) $(1, 3), (9, -8)$