

Honors Geometry Assignment 10/23/18

Due 10/25/18 for self grade

Please complete in your notes

TB p47 #12-17

Find the coordinates of the midpoint of each segment.

12.  $\overline{XY}$  with endpoints  $X(-3, -7)$  and  $Y(-1, 1)$

13.  $\overline{MN}$  with endpoints  $M(12, -7)$  and  $N(-5, -2)$

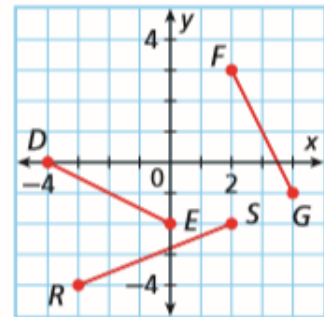
14.  $M$  is the midpoint of  $\overline{QR}$ .  $Q$  has coordinates  $(-3, 5)$ , and  $M$  has coordinates  $(7, -9)$ . Find the coordinates of  $R$ .

15.  $D$  is the midpoint of  $\overline{CE}$ .  $E$  has coordinates  $(-3, -2)$ , and  $D$  has coordinates  $(2\frac{1}{2}, 1)$ . Find the coordinates of  $C$ .

**Multi-Step** Find the length of the given segments and determine if they are congruent.

16.  $\overline{DE}$  and  $\overline{FG}$

17.  $\overline{DE}$  and  $\overline{RS}$



TB p364 #9-11, 15-17, 30

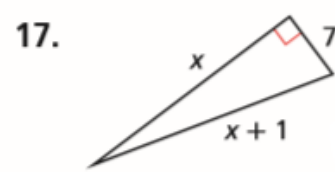
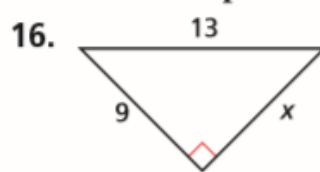
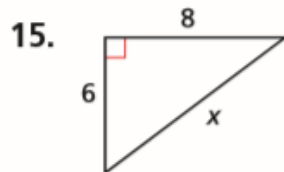
**Multi-Step** Tell if the measures can be the side lengths of a triangle. If so, classify the triangle as acute, obtuse, or right.

9. 7, 10, 12

10. 9, 11, 15

11. 9, 40, 41

Find the value of  $x$ . Give your answer in simplest radical form.



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