

## 4-1 B Midpoint

- \_\_\_\_\_ 1. What is the midpoint of (4, 10) and (6, 8)?
- \_\_\_\_\_ 2. What is the midpoint of (2, n) and (6, n + 6)?
- \_\_\_\_\_ 3. What is the midpoint of (-3, 3) and (-5, -3)?
- \_\_\_\_\_ 4. What is the midpoint (-4, n) and (6, n + 4)?
- \_\_\_\_\_ 5. What is the midpoint of (0, 6) and (-4, -8)?

## 4-1 C Distance

Round your answers to the nearest tenth if needed.

- \_\_\_\_\_ 1. What is the distance from (4, 10) and (6, 8)?
- \_\_\_\_\_ 2. What is the distance from (2, n) and (6, n + 6)?
- \_\_\_\_\_ 3. What is the distance from (1, 11) and (2, 9)?
- \_\_\_\_\_ 4. What is the distance from (-4, 6) and (-6, 8)?
- \_\_\_\_\_ 5. What is the distance from (2, 10) and (6, 8)?

## 4-2 Equation of lines in slope intercept form

- \_\_\_\_\_ 1. Find the equation of the line, in slope intercept form, that goes through the point (2, 8) and has a slope of -3.
- \_\_\_\_\_ 2. Give the equation of the line, in slope intercept form, that is parallel to  $y = 8x - 5$  and passes through the point (1, 20).
- \_\_\_\_\_ 3. Give the equation of the line, in slope intercept form, that is perpendicular to  $y = 2x - 5$  and passes through the point (2, 8).
- \_\_\_\_\_ 4. Find the equation of the line, in slope intercept form, that goes through the point (-1, -2) and has a slope of  $\frac{1}{2}$ .
- \_\_\_\_\_ 5. Find the equation of the line, in slope intercept form, that goes through the point (2, 4) and (3, 10).