

Practice 1-2

Vocab: parallel, perpendicular, angle bisector, perpendicular bisector

Review Pythagorean Theorem

$$a^2 + b^2 = c^2$$

Midpoint Formula $\left(\frac{x_2 + x_1}{2}, \frac{y_2 + y_1}{2} \right)$

A (-3, 2)

B (4, -2)

$$\left(\frac{4 + (-3)}{2}, \frac{-2 + 2}{2} \right)$$

$$\left(\frac{1}{2}, 0 \right) = \text{midpoint}$$

Distance Formula

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

A (-3, 2)
B (4, -2)

$$\sqrt{(4 - (-3))^2 + (-2 - 2)^2}$$

$$\sqrt{(7)^2 + (-4)^2}$$

$$\sqrt{49 + 16} = \sqrt{65} \text{ or } 8.1$$