

Name \_\_\_\_\_ Date \_\_\_\_\_

Find the distance between the points.

$(3, -2)$   $(-4, -4)$

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$(-1, -4)$   $(-6, -6)$

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$(-5, -4)$   $(4, 4)$

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# Answer Key

Find the distance between the points.

(3, -2) (-4, -4)

$$\begin{aligned} (3 - -4)^2 + (-2 - -4)^2 &= c^2 \\ 7^2 + 2^2 &= c^2 \\ 49 + 4 &= c^2 \\ 53 &= c^2 \\ \sqrt{53} &= c \end{aligned}$$

(-1, -4) (-6, -6)

$$\begin{aligned} (-1 - -6)^2 + (-4 - -6)^2 &= c^2 \\ 5^2 + 2^2 &= c^2 \\ 25 + 4 &= c^2 \\ 29 &= c^2 \\ \sqrt{29} &= c \end{aligned}$$

(-5, -4) (4, 4)

$$\begin{aligned} (-5 - 4)^2 + (-4 - 4)^2 &= c^2 \\ (-9)^2 + (-8)^2 &= c^2 \\ 81 + 64 &= c^2 \\ 145 &= c^2 \\ \sqrt{145} &= c \end{aligned}$$