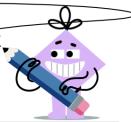# Graphing Circles - Equation Format and Variable to Variable Meaning

1 What does the variable 'k' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$k = ?$$

A — The y-coordinate of the center

B — The x-coordinate of the center

2 What does the variable 'r' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$r = ?$$

A — The radius of the circle

B — The x-coordinate of the center

3 What does the variable 'k' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$k = ?$$

A — The y-coordinate of the center

B — The radius of the circle

4 What does the variable 'r' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$r = ?$$

A — The y-coordinate of the center

B — The radius of the circle

5 What does the variable 'h' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$h = ?$$

A — The y-coordinate of the center

B — The x-coordinate of the center

6 What does the variable 'h' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$h = ?$$

A — The x-coordinate of the center

B — The radius of the circle

7 What does the variable 'r' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$r = ?$$

A — The y-coordinate of the center

B — The radius of the circle

8 What does the variable 'h' signify in this formula?

$$(x-h)^2 + (y-k)^2 = r^2$$
$$h = ?$$

A — The radius of the circle

B — The x-coordinate of the center