

| | $x = y^2$ Horiz. Shift | $x = y^2$ Stretched | $x = y^2$ Reflected | 2-91 (a) | 2-91 (b) | 2-91 (c) | 2-92 (a) | 2-92 (b) | 2-93 $x = y^2$ | 2-93 $x^2 + y^2 = 25$ |
|---|---------------------------|------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|-------------------|--------------------------|
| A | | | | | | | | | | |
| B | | | | | | | | | | |
| C | | | | | | | | | | |
| D | | | | | | | | | | |
| E | | | | | | | | | | |
| F | | | | | | | | | | |
| G | | | | | | | | | | |
| H | | | | | | | | | | |

Write equations for 2-90 Checks for the rest

Answers: 2-89 and 2-90 (a)

2-90 Possible Equations:

$x = y^2 + 2$ – Horizontal translation, right two units.

$x = (y + 2)^2$ – Vertical translation, down two units.

$x = 3y^2$ – Horizontal stretch

$x = .5y^2$ – Horizontal compression

$x = -y^2$ – Reflection across y-axis

2-91 (a): $(x - h)^2 + (y - k)^2 = 25$

Answers: 2-89 and 2-90 (a)

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2-91 (a): $(x - h)^2 + (y - k)^2 = 25$

Answers: 2-91

(b) – The radius is 5; it is the square root of 25

(c) – $(x - 5)^2 + (y + 7)^2 = 100, (x - 5)^2 + (y + 7)^2 = 144$

Answers: 2-91

(b) – The radius is 5; it is the square root of 25

(c) – $(x - 5)^2 + (y + 7)^2 = 100, (x - 5)^2 + (y + 7)^2 = 144$

Answers: 2-91

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Answers: 2-92

a. The number on the right side of the equation is the square of the radius.

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

b. Take the square root of 169 to get a radius of 13.

Answers: 2-92

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

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Answers: 2-92

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b. Take the square root of 169 to get a radius of 13.