

Vertex Form

$$
y=a(x-h)^{2}+k
$$

vertex $(h, k)$
axis: $x=h$
$\max / \min : K$
$h=2 \quad k=3$

$$
y=(x-2)^{2}+3
$$

$$
\begin{aligned}
& \text { right } \\
& h=-2 \quad k=3 \\
& y=(x-(-22))^{2}+3 \\
& y=(x+2)^{2}+3
\end{aligned}
$$

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(ex.2) A. $y=-2.5 x^{2}$
C. $y=2.5 x^{2}$
B. $y=-0.3 x^{2}$
D. $y=5 x^{2}$

$$
\begin{aligned}
& \text { Widest }=B \\
& \text { narrow }=D
\end{aligned}
$$

Check your progress
\#2 F. $y=-0.1 x^{2}$
G. $y=1 x^{2}$
narrow $\longrightarrow$ widest

$$
J, G, H, F
$$

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p. 290-292
14-16, 21-24,
33-35, 41-42, 50, 54,
59-60
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