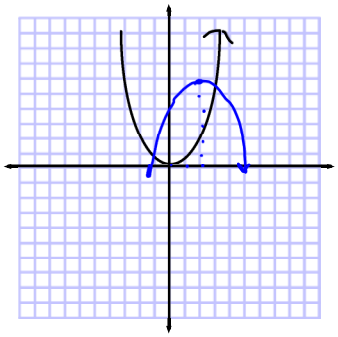
Calendar Math

Given the equation, graph the transformation

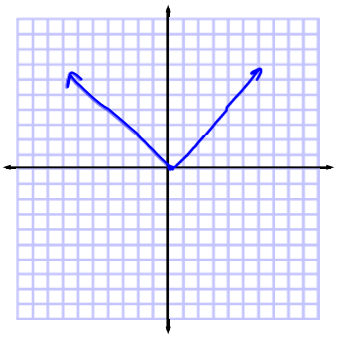
Ex 1: $y = -(x - 2)^2 + 6$

2 units right flip
6 units up

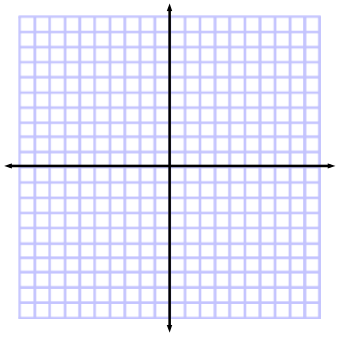


Parent graph

Ex 2: $y = |x - 3| - 2$



Ex 3: $y = \sqrt{x + 3} - 1$



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Solve By Factoring 1.6

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1. $r^2 + 6r = 0$

$r(r+6)=0$

$r=0$ $\quad r+6=0$

$-6 \quad -6$

$r=-6$

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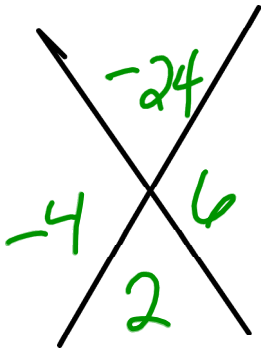
5. $x^2 + 2x - 24 = 0$

$(x - 4)(x + 6) = 0$



$x - 4 = 0$
$+4 \quad +4$
$x = 4$

$x + 6 = 0$
$-6 \quad -6$
$x = -6$

2,12
3,8
4,6

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10. $7x^2 + 30x + 8 = 0$

$(7x + 2)(\frac{7x}{7} + \frac{28}{7})$

$(7x+2)(x+4) = 0$

56
2 28
30

2, 28

$7x + 2 = 0$
$-2 \quad -2$

$\frac{7x}{7} = \frac{-2}{7}$

$x = -\frac{2}{7}$

$x + 4 = 0$
$-4 \quad -4$

$x = -4$

11. $x^2 - 16 = 0$

$(x - 4)(x + 4) = 0$

$x - 4 = 0$
$+4 \quad +4$
$x = 4$

$x + 4 = 0$
$-4 \quad -4$
$x = -4$

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14. $5p^2 + 10p - 240 = 0$

$\frac{5}{5} \quad \frac{10}{5} \quad \frac{240}{5}$

$5(p^2 + 2p - 48)$

$5(p - 6)(p + 8)$

$5 \neq 0$

-48: $-6, 8$; $-6 + 8 = 2$

$p - 6 = 0$

$+6 \quad +6$

$p = 6$

$p + 8 = 0$

$-8 \quad -8$

$p = -8$

Sep 21-2:01 PM