

Name: Key

9.1 (day 2) Quadratics in Intercept Form

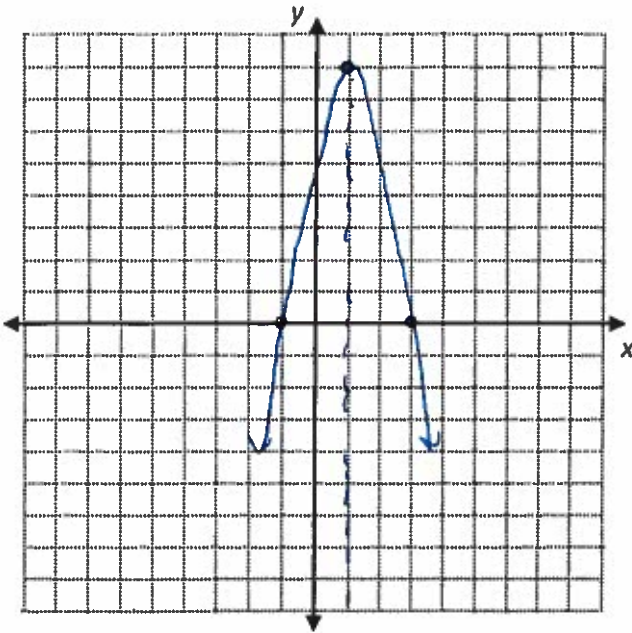
down

1) $y = -2(x-3)(x+1)$

x-int: 3, -1

a.o.s.: $x = 1$

v: (1, 8)

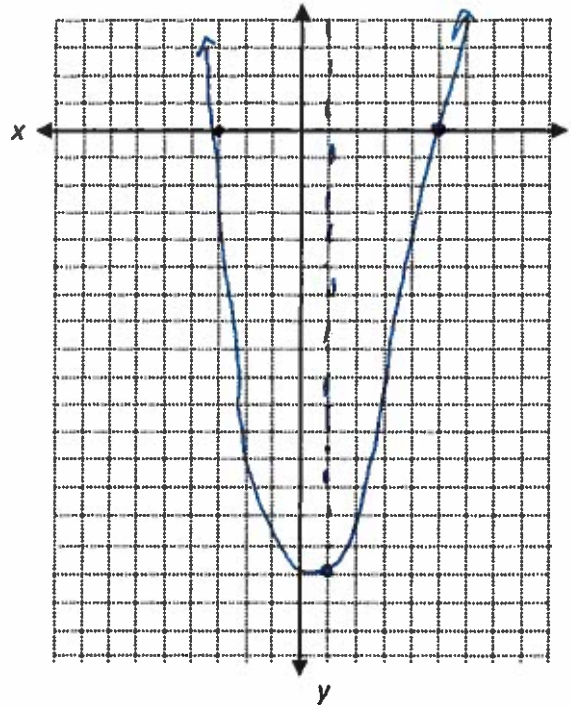


2) $f(x) = x^2 - 2x - 15$

$f(x) = (x-5)(x+3)$ v: (1, -16)

up x-int: 5, -3

a.o.s.: $x = 1$



3) $y = (x+4)(x-1)$

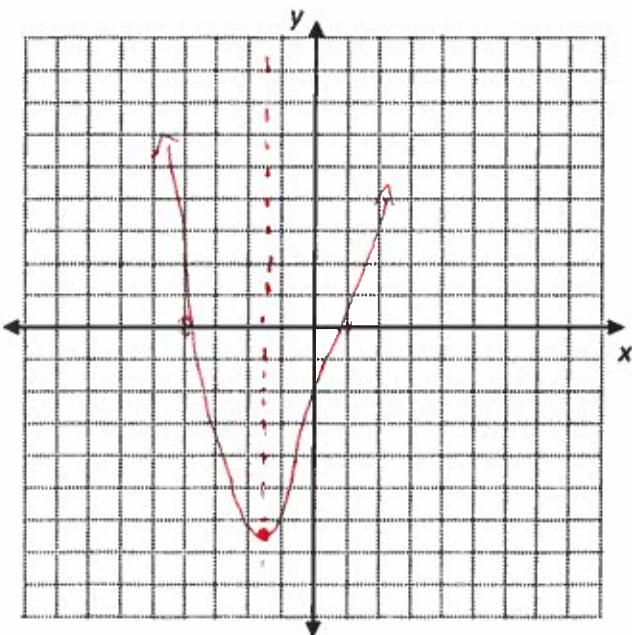
up x-int: -4, 1

a.o.s.: $x = -\frac{3}{2}$

v: $(-\frac{3}{2}, -\frac{25}{4})$

or

$(-1.5, -6.25)$



4) $y = 2x^2 + 4x - 30$

HINT: You may need to change the scale of the graph

$2(x^2 + 2x - 15)$

$2(x+5)(x-3)$

up x-int: -5, 3

a.o.s.: $x = -1$

v: $(-1, -32)$

