

Algebra 2

MONDAY 9-17-12

CLASS
NOTES

2. $h(N) = |-N|$ Find $h(4)$

$$h(4) = |-4| = 4 = h(4)$$

6 $h(t) = t^2 + \frac{4}{3}$ $h(-\frac{3}{2}) = ?$

$$h(-\frac{3}{2}) = (-\frac{3}{2})^2 + \frac{4}{3}$$

$$= \frac{9}{4} + \frac{4}{3}$$

$$= \frac{27}{12} + \frac{16}{12} = \frac{43}{12} = h(-\frac{3}{2})$$

16 $f(x) = -3x - 2$ $f(2x) = ?$

$$f(2x) = -3(2x) - 2$$

$$f(2x) = -6x - 2$$

$$(28) \quad - \frac{2x^4}{4x^4y^3} = \boxed{-\frac{1}{2y^3}}$$

$$(26) \quad \frac{4x^4}{xy^3} = \boxed{\frac{4x^3}{y^3}}$$

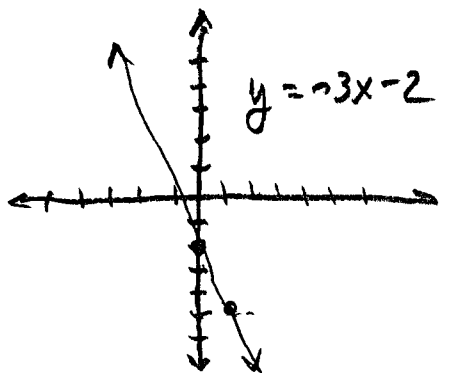
$$(32) \quad \left(\frac{-y^3}{-2y^3 - x^3y^3} \right)^3 = \left(-\frac{1}{2x^3y^3} \right)^3$$

$$= \boxed{-\frac{1}{8x^9y^9}}$$

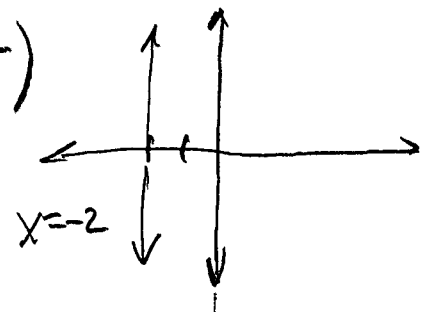
$$(36) \quad \frac{(x^2y^0)^0}{2y^3 - 2x^2y^3} = \boxed{\frac{1}{-4x^2y^6}}$$

$$(38) \quad \frac{(V^2)^4}{\sqrt{V} \cdot V} = \frac{V^8}{V^2} = \boxed{V^6}$$

$$(40) \quad 3x + y = -2$$

$$y = -3x - 2$$


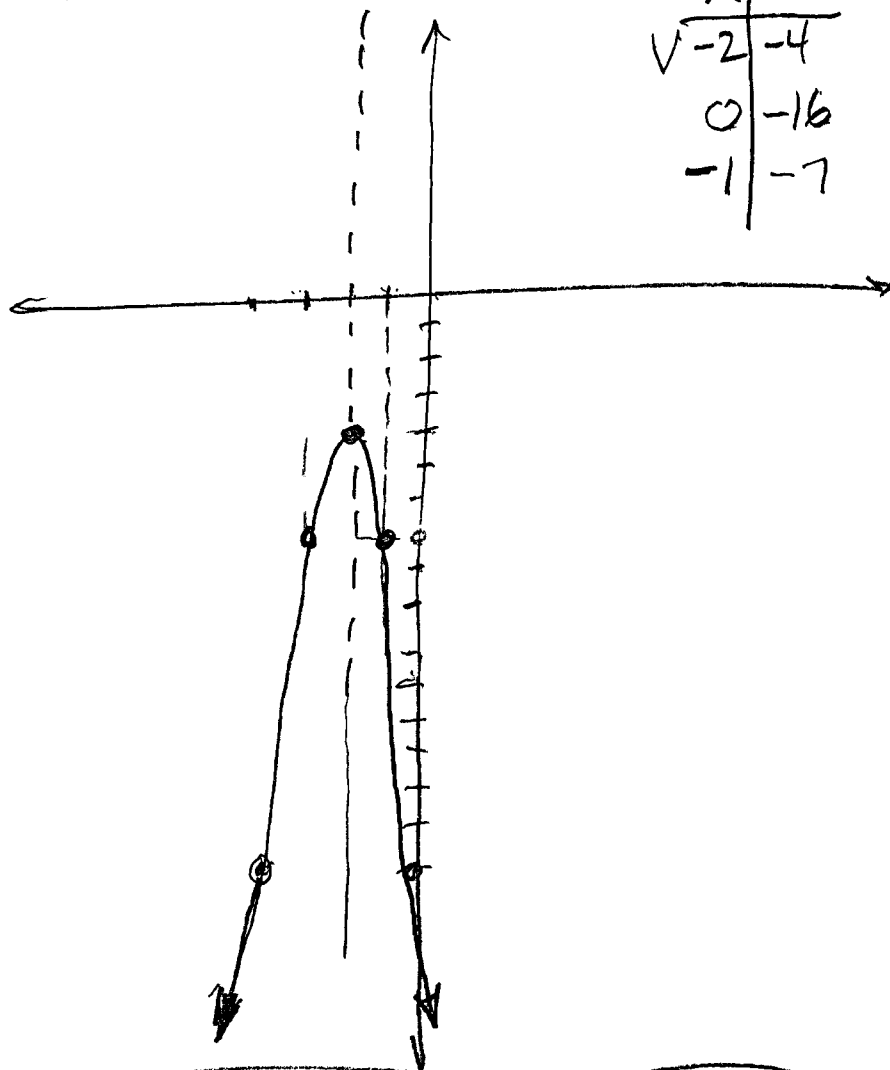
(EX) Vertical Line
that Goes through $(-2, 5)$



④⑥ $y = -3(x+2)^2 - 4$

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

X	Y
V -2	-4
0	-16
-1	-7



$y = ax^2 + bx + c$ STD.

AOS = $-\frac{b}{2a}$ $\left(-\frac{b}{2a}, f\left(-\frac{b}{2a}\right)\right)$

$$(66) \quad 2r^2 - 3r = 9$$

$$2r^2 - 3r - 9 = 0$$

$$\text{sum} = b = -3$$

$$\text{prod} = ac = -18$$

$$+3r - 6r$$

$$(2r^2 + 3r) + (-6r - 9) = 0$$

$$r(\underline{2r+3}) + -3(\underline{2r+3}) = 0$$

$$(2r+3)(r-3) = 0$$

$$r = \left\{ 3, -\frac{3}{2} \right\}$$

ck

$$2(\quad)^2 - 3(\quad) \stackrel{?}{=} 9$$

$$\textcircled{86} \quad \underline{\underline{x^2 - 18x + 76 = -8x^2 + 2}}$$

$$9x^2 - 18x + 74 = 0$$

$$\frac{9x^2}{9} - \frac{18x}{9} = \frac{-74}{9}$$

$$x^2 - 2x + \{1^2\} = \frac{-74}{9} + \left\{\frac{9}{9}\right\}$$

$$(x - 1)^2 = \frac{-65}{9}$$

$$x - 1 = \pm \frac{i\sqrt{65}}{3}$$

$$\boxed{x = 1 \pm \frac{i\sqrt{65}}{3}}$$

CK

$$(\quad)^2 - 18(\quad) + 76$$

?

$$-8(\quad)^2 + 2$$