vertex form.pdf Page 1 of 5

Mouth 2 · talk out HW · Grab toolkits Created with Doceric vertex form.pdf Page 2 of 5

#9
$$n^2 - 10n | 9 = 5$$
 $+10 + 19$
 $n^2 - 10n + 2 = 344$
 $(n - 5)^3 - 49 = 0$

#30. $3x^2 + 4x = 0$
 $3x^2 +$

Created with Doceri

vertex form.pdf Page 3 of 5

	Vertex form
	$f(x) = a(x-h)^2 + K$
	$y = a(x-5)^2 - a$
	Plug in 0 for y & solve
x-intercepts	$exi a(x-5)^2 - a = 0$ $+a + a + a$ $x + 5 = +1$
	$\frac{3(x-5)^2 = a}{3} \qquad x = 5 \pm 1$
	$(x-5)^{2} = 1$ $x = 5+1 = 0$ $x = 5-1 = 1+$
	$f(x) = \alpha (x-b)^2 + K$
Vertex	vertex: (h, K) opp same
	ex: a(x-5)2-a Created with Doceri
	Vertex:(ち,-a)

vertex form.pdf Page 4 of 5

AXIS SUM-	the x-coordinate of the vertex (h-value) $\boxed{X=5}$
y-int	Plug in D for $x + solve for y$. $ext f(x) = a(x-s)^2 - 2$ $= a(0-s)^2 - a$ $= a(-s)^2 - a$ $= a(as) - a reated with Docering = so - a = 48$

vertex form.pdf Page 5 of 5

1) Complete the square (A11) @ Vertex (A11) 3 x-int (mut of 3) 3,6,9,12,15,18,21,24,27 $= \left(\frac{b}{a}\right)^a$ $(\chi-1)(\chi-1)=(\chi-1)^2$ Created with Docer