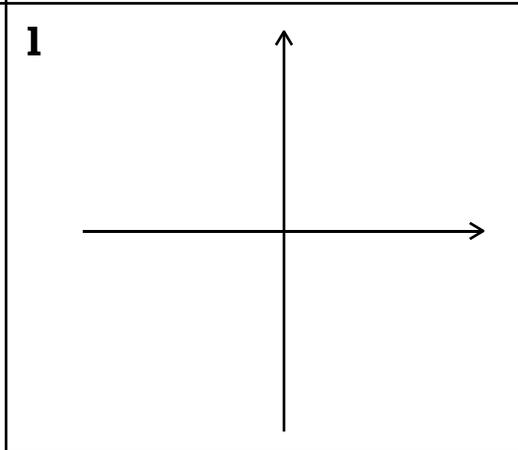
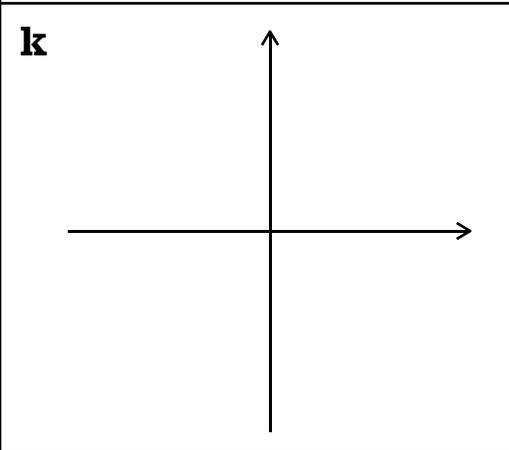
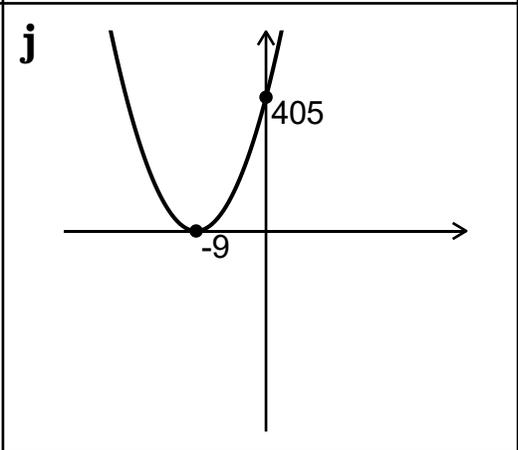
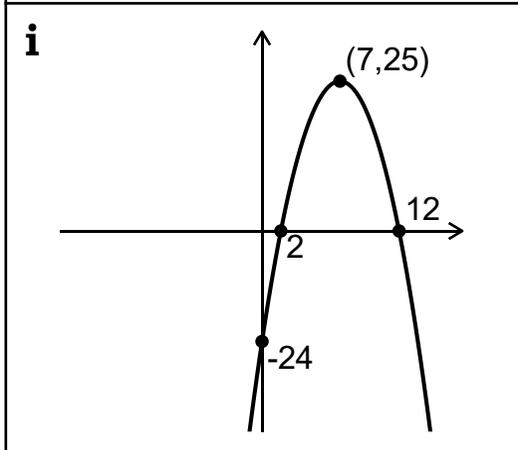
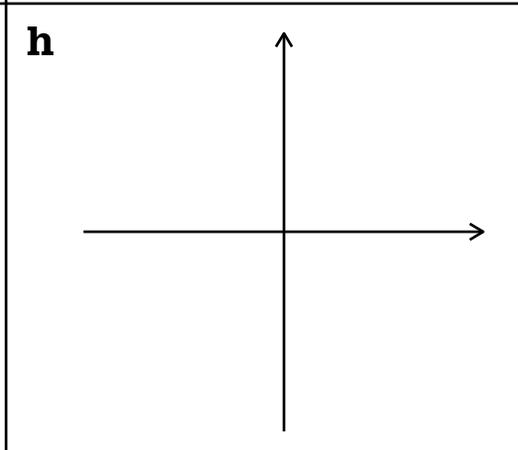
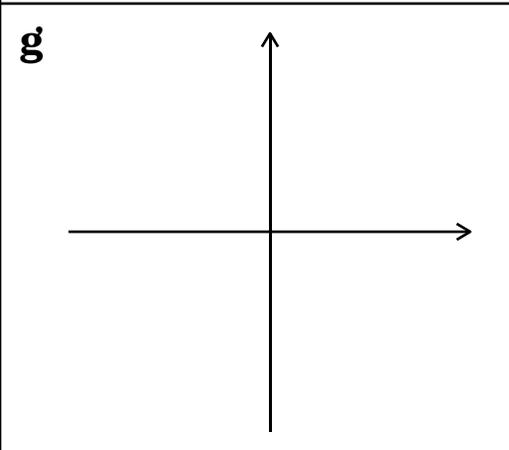
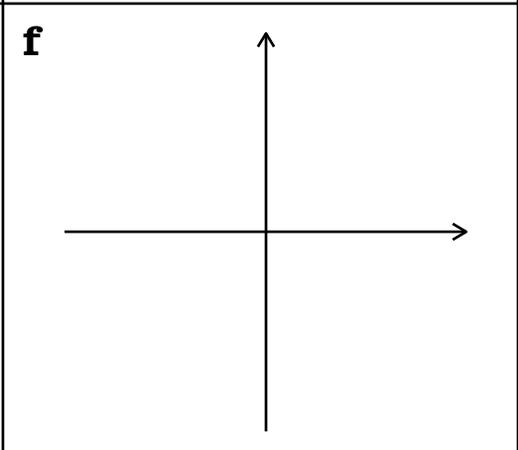
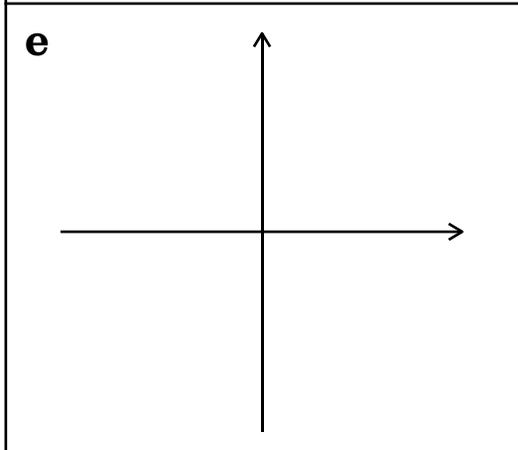
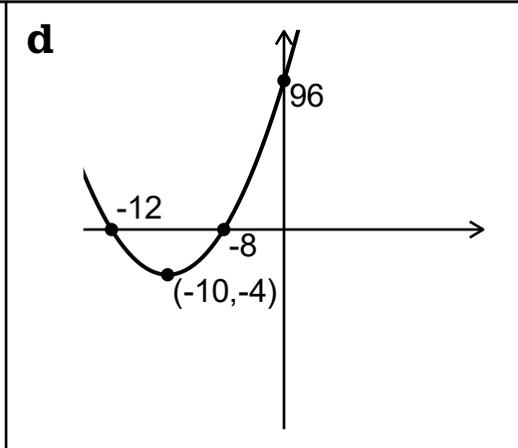
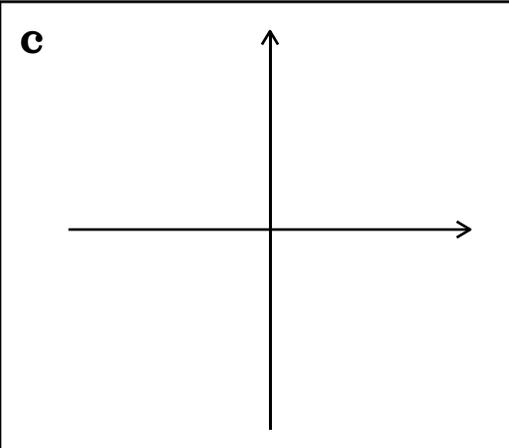
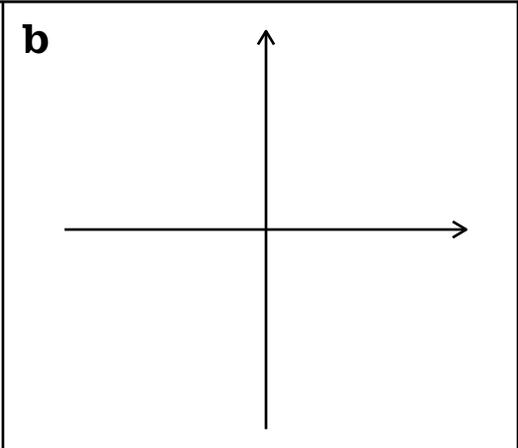
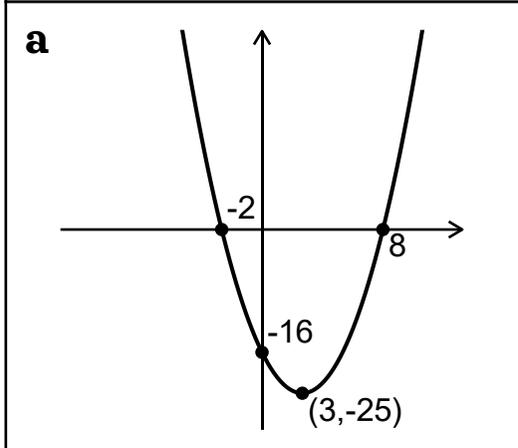


	Expanded	Factorised	Completed	Roots	y-intercept	Vertex	Sketch
a	$y = x^2 - 6x - 16$	$y = (x + 2)(x - 8)$	$y = (x - 3)^2 - 25$	$x = -2, x = 8$	$(0, -16)$	$(3, -25)$	<input checked="" type="checkbox"/>
b			$y = (x - 5)^2 - 4$				
c		$y = (x + 13)(x - 1)$					
d							<input checked="" type="checkbox"/>
e	$y = x^2 - 8x + 16$						
f				$x = -3, x = 5$	$(0, -15)$		
g		$y = 3(x + 3)(x - 5)$					
h					$(0, 24)$	$(7, -25)$	
i							<input checked="" type="checkbox"/>
j							<input checked="" type="checkbox"/>
k	$y = -2x^2 + 20x + 22$						
l				$x = -1, x = 10$	$(0, 20)$		

Sketches



	Expanded	Factorised	Completed	Roots	y-intercept	Vertex	Sketch
a	$y = x^2 - 6x - 16$	$y = (x + 2)(x - 8)$	$y = (x - 3)^2 - 25$	$x = -2, x = 8$	$(0, -16)$	$(3, -25)$	<input checked="" type="checkbox"/>
b	$y = x^2 - 10x + 21$	$y = (x - 3)(x - 7)$	$y = (x - 5)^2 - 4$	$x = 3, x = 7$	$(0, 21)$	$(5, -4)$	<input checked="" type="checkbox"/>
c	$y = x^2 + 12x - 13$	$y = (x + 13)(x - 1)$	$y = (x + 6)^2 - 49$	$x = -13, x = 1$	$(0, -13)$	$(-6, -49)$	<input checked="" type="checkbox"/>
d	$y = x^2 + 20x + 96$	$y = (x + 12)(x + 8)$	$y = (x + 10)^2 - 4$	$x = -12, x = -8$	$(0, 96)$	$(-10, -4)$	<input checked="" type="checkbox"/>
e	$y = x^2 - 8x + 16$	$y = (x - 4)(x - 4)$	$y = (x - 4)^2$	$x = 4$	$(0, 16)$	$(4, 0)$	<input checked="" type="checkbox"/>
f	$y = x^2 - 2x - 15$	$y = (x + 3)(x - 5)$	$y = (x - 1)^2 - 16$	$x = -3, x = 5$	$(0, -15)$	$(1, -16)$	<input checked="" type="checkbox"/>
g	$y = 3x^2 - 6x - 45$	$y = 3(x + 3)(x - 5)$	$y = 3(x - 1)^2 - 48$	$x = -3, x = 5$	$(0, -45)$	$(1, -48)$	<input checked="" type="checkbox"/>
h	$y = x^2 - 14x + 24$	$y = (x - 12)(x - 2)$	$y = (x - 7)^2 - 25$	$x = 12, x = 2$	$(0, 24)$	$(7, -25)$	<input checked="" type="checkbox"/>
i	$y = -x^2 + 14x - 24$	$y = -(x - 12)(x - 2)$	$y = -(x - 7)^2 + 25$	$x = 12, x = 2$	$(0, -24)$	$(7, 25)$	<input checked="" type="checkbox"/>
j	$y = 5x^2 + 90x + 405$	$y = 5(x + 9)(x + 9)$	$y = 5(x + 9)^2$	$x = -9$	$(0, 405)$	$(-9, 0)$	<input checked="" type="checkbox"/>
k	$y = -2x^2 + 20x + 22$	$y = -2(x + 1)(x - 11)$	$y = -2(x - 5)^2 + 72$	$x = -1, x = 11$	$(0, 22)$	$(5, 72)$	<input checked="" type="checkbox"/>
l	$y = -2x^2 + 18x + 20$	$y = -2(x + 1)(x - 10)$	$y = -2(x - 4.5)^2 + 60.5$	$x = -1, x = 10$	$(0, 20)$	$(4.5, 60.5)$	<input checked="" type="checkbox"/>

Sketches

