<b>QUIZIZZ</b> Homework 8.4 *Three Problems Require W 13 Questions				NAME : CLASS : DATE :			
1. Compare the function $y = 5x^2$ to the parent function $y = x^2$							
🗌 a) Wider			b)	) Narrower			
2. Describe	the transformation of y = x <sup>2</sup> + 4						
🗌 a) Shift 4 u	nits UP		b)	) Shift 4 units DOWN			
🗌 c) Shift 4 u	nits LEFT		d)	) Shift 4 units RIGHT			
<ul> <li>3. Describe</li> <li>a) Shift 4 u</li> <li>c) Shift 4 u</li> </ul>	the transformation of y = (x - 4) <sup>2</sup> nits UP nits LEFT		b) d)	) Shift 4 units DOWN ) Shift 4 units RIGHT			
4. Describe	the transformation of y = $-2x^2 - 5$						
a) Flipped a	and shifted 5 units down		b)	) Flipped, shifted 5 units down, and is narrower			
□ c) Flipped,	shifted 5 units down, and is wider		d)	) Shifted 5 units down and is narrower			
5. Describe the transformation of $y = (x + 7)^2 + 3$							
□ a) Moved 7	units right and 3 units up		b)	) Moved 7 units left and 3 units up			
C) Moved 7	units right and 3 units down		d)	) Moved 7 units left and 3 units down			

- Describe the transformation of  $y = (1/3)(x 3)^2 + 3$ 6.
- □ a) The parabola is narrow and moved 3 units □ b) The parabola is narrow and moved 3 units right and 3 units up
  - left and 3 units up
- □ c) The parabola is wider and moved 3 units □ d) The parabola is wider and moved 3 units right and 3 units up
  - left and 3 units up



8. If given the equation  $y = 3(x + 5)^2 - 4$ , what is the vertex of the parabola?

🗌 a) (5, -4)	🗌 b) (-5, -4)
□ c) (-15, -4)	🗌 d) (15, -4)



- 10. WORK REQUIRED (this was completed in class!)Use the quadratic formula to determine the two roots of the function: Y = 3x<sup>2</sup> 4x + 1
  □ a) 4 1/3 □ b) 1
- □ c) 1/3 □ d) 1/3
- 🗌 e) -1

11. WORK REQUIRED: this was completed in class!Use the quadratic formula to determine the two roots of the function: $2x^2 + 8x = 5$ 

🗌 a) 10.55	🗌 b) -4.55
□ c) 5.85	🗌 d) 0.55

🗌 e) -2.5

12. WORK REQUIREDUse the quadratic formula to determine the two roots of the function:  $Y = 8x^2 - 4$ 

□ a) 2.2 □ b) 0.7 □ c) 3.1 □ d) -0.7

🗌 e) -3.1

13.  $3x^2 - 4x + 1$  What is the equation for the axis of symmetry?

□ a) x = -4	□ b) x = 2/3
□ c) x = 8	□ d) x = 12

□ e) x = 2