IM2 - 3.3 (P - cV1) Key Characteristics of Factored & Standard Form Equations

F.IF.4, F.IF.5, F.IF.6		= 0
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Directions - Identify factored form characteristics from the following functions & convert to standard form.

1. $f(x) = (x - 7)(x - 6)$	Convert to Standard Form & ID y-int:
• Roots: & Zeros: &	
• x-intercepts:	
Parabola Opens: & has a min / max.	
Parabola is stretched by, compressed by, neither.	y-intercept: (,)
2. $f(x) = (x+3)(x+3)$	Convert to Standard Form & ID y-int:
• Roots: & Zeros: &	
• x-intercepts:	
Parabola Opens: & has a min / max.	
Parabola is stretched by, compressed by, neither.	y-intercept: (,)
3. $f(x) = -(x-9)(x+9)$	Convert to Standard Form & ID y-int:
• Roots: & Zeros: &	
• x-intercepts:	
Parabola Opens: & has a min / max.	
Parabola is stretched by, compressed by, neither.	y-intercept: (,)
4. $f(x) = 3(x+1)(x-4)$	Convert to Standard Form & ID y-int:
• Roots: & Zeros: &	
• x-intercepts:	
Parabola Opens: & has a min / max.	
Parabola is stretched by, compressed by, neither.	y-intercept: (,)
5. $f(x) = -\frac{1}{4}(x+2)(x-8)$	Convert to Standard Form & ID y-int:
• Roots: & Zeros: &	
• x-intercepts:	
Parabola Opens: & has a min / max.	
Parabola is stretched by, compressed by, neither.	y-intercept: (

6. f(x) = -2(x-1)(x-7)

Convert to Standard Form & ID y-int:

• Roots: _____ & ____ Zeros: _____ & _____

• x-intercepts: _____

• Parabola Opens: ______ & has a min / max.

• Parabola is wider / narrower than parent function.

y-intercept: (,)

7. f(x) = (x+4)(x-4)

Convert to Standard Form & ID y-int:

• Roots: _____ & ____ Zeros: _____ & _____

• x-intercepts: _____

• Parabola Opens: _____ & has a min / max.

• Parabola is wider / narrower than parent function.

y-intercept: (,)

8. f(x) = -(x-7)(x+7)

Convert to Standard Form & ID y-int:

• Roots: _____ & ____ Zeros: _____ & _____

x-intercepts: _______

• Parabola Opens: ______ & has a min / max.

• Parabola is wider / narrower than parent function.

y-intercept: (,)

9. f(x) = 0.5(x+10)(x-8)

Convert to Standard Form & ID y-int:

• Roots: _____ & ____ Zeros: _____ & ____

• x-intercepts: _____

• Parabola Opens: ______ & has a min / max.

• Parabola is wider / narrower than parent function.

y-intercept: (,)

10. $f(x) = \frac{1}{2}(x-6)(x+12)$

Convert to Standard Form & ID y-int:

• Roots: _____ & ____ Zeros: _____ & ____

Parabola Opens: _____ & has a min / max.

Parabola is wider / narrower than parent function.

y-intercept: (,)