

$$f(x)=(x+2)^{2}(x-2)^{2}(x-4)$$
Zeros
$$(X+z)^{2}=0 \quad (x-z)^{2}=0 \quad X-4=0$$

$$X=-z; \text{ mult } z \quad x=z \text{ mult } z \quad x=4$$

$$X=-int = (-z,0) (z,0)(4,0)$$

$$y=-int = (0+z)^{2} (0-z)^{2} (0-4)$$

$$(H) (H) (-H) \quad (0, -UH)$$
Grads
$$x^{2} \cdot x^{2} \cdot x = x^{5}$$

$$x \rightarrow -\infty \quad y \rightarrow -\infty$$

$$x \rightarrow \infty \quad y \rightarrow \infty$$
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More Zeros of Polynomial Functions.pdf

$$f(x) = -(x+2)^{2}(x-2)^{2}(x-4)$$
Zeros

$$(x+z)^{2} = 0 \quad (x-z)^{2} = 0 \quad x-y=0$$

$$x = -z \quad \text{mult } z \quad x = y$$

$$x = -z \quad \text{mult } z \quad x = y$$

$$x = -(-z, 0) (z, 0) (y_{1}, 0)$$

$$y = -(x+2)^{2} (0-z)^{2} (0-4)$$

$$-(y_{1})(y_{1})(-y_{1}) (0, cy)$$

$$cy$$
Ends
$$-(x^{2})(x)^{2}(x) = -x^{5}$$

$$x \to -\infty \quad y \to \infty$$

$$x \to \infty \quad y \to -\infty$$
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