

1) Graph these functions and report their zeros.

a) $f(x) = (x + 2)(x - 5)$

d) $j(x) = (x + 3)(x - 2)(x - 1)$

b) $g(x) = (x - 3)(x + 2)$

e) $k(x) = (x - 1)(x - 2)^2$

c) $h(x) = (x - 1)(x + 4)$

f) $m(x) = (x + 1)^3$

2) Explain the connection between a function's factors and its zeros using complete sentences.

3) Fill in the blanks below.

	Zeros	Factors	Polynomial
a)		$(x + 1)(x + 2)$	
b)	2, -1, 3		
c)			$x^2 + 6x + 8$
d)		$(x - 3)(x + 1)(x)$	
e)			$x^3 + 2x^2 - x - 2$
f)	1, -3i, 3i		