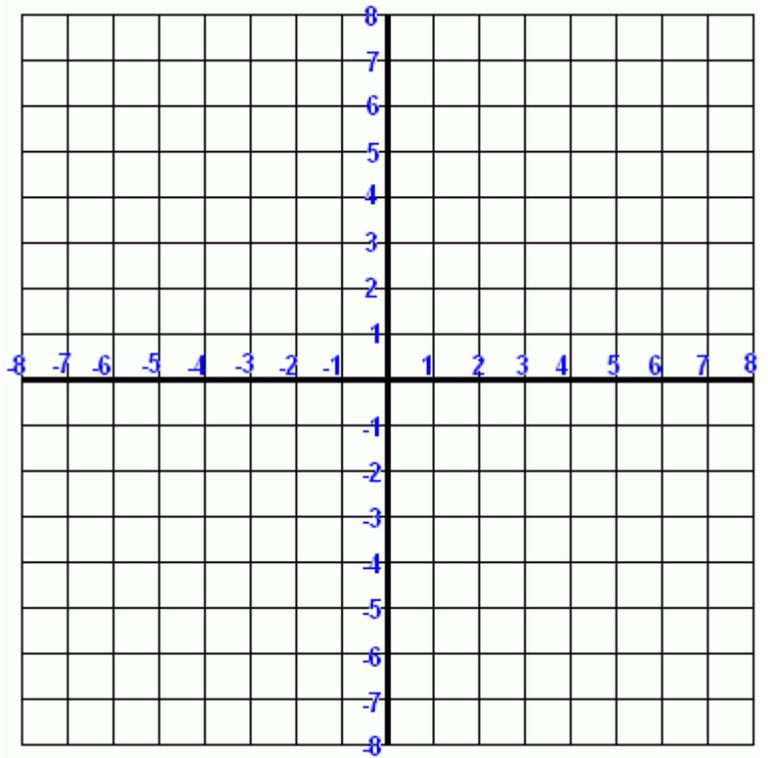Graph Multiplicity

$f(x) = (x + 3)(x - 2)(x - 5)$

Determine the multiplicity at each of the zeros?

What are the roots?

What is the y intercept?

What is the end behavior?

How many turning points does it have?
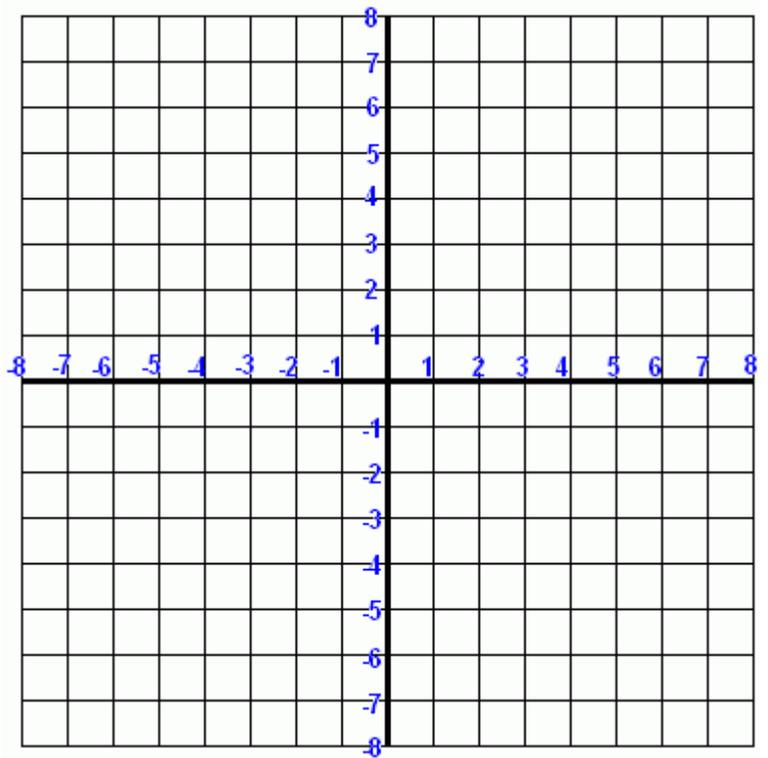
$f(x) = x^2(x - 2)$

Determine the multiplicity at each of the zeros?

What are the roots?
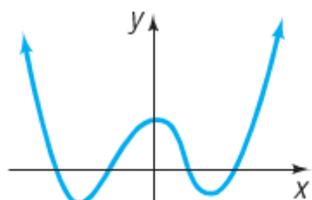
What is the y intercept?

What is the end behavior?

How many turning points does it have?
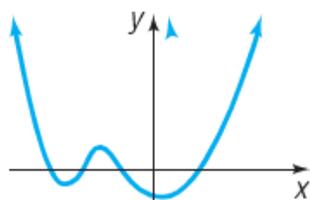
Which of the graphs in Figure 19 could be the graph of
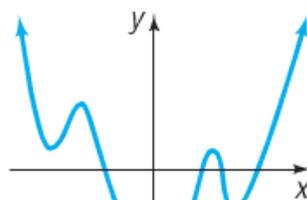
$$f(x) = x^4 + 5x^3 + 5x^2 - 5x - 6?$$
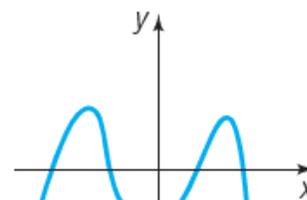

(a)   (b)   (c)   (d)

Determine the multiplicity at each of the zeros?

What are the roots?

What is the y intercept?

What is the end behavior?

How many turning points does it have?