



Function Root Behaviour (Polynomials) - Function, Behaviour and Intercept to True/False

<p>1 Is this statement true or false?</p> $f(x) = x(x - 3)^2$ <p>At $x = 3$ the graph crosses the x-axis and flattens.</p>	<p>2 Is this statement true or false?</p> $f(x) = (x + 2)^4(x - 3)^3$ <p>At $x = -2$ the graph crosses the x-axis and flattens.</p>		
<p>A True</p>	<p>B False</p>	<p>A True</p>	<p>B False</p>
<p>3 Is this statement true or false?</p> $f(x) = (x + 2)^3(x + 1)^3$ <p>At $x = -2$ the graph crosses the x-axis and flattens.</p>	<p>4 Is this statement true or false?</p> $f(x) = (x + 3)^3x$ <p>At $x = -3$ the graph crosses the x-axis and flattens.</p>		
<p>A False</p>	<p>B True</p>	<p>A False</p>	<p>B True</p>
<p>5 Is this statement true or false?</p> $f(x) = (x + 3)^3x^2$ <p>At $x = -3$ the graph crosses the x-axis and flattens.</p>	<p>6 Is this statement true or false?</p> $f(x) = (x - 1)^2(x - 2)$ <p>At $x = 1$ the graph touches the x-axis without crossing.</p>		
<p>A False</p>	<p>B True</p>	<p>A False</p>	<p>B True</p>
<p>7 Is this statement true or false?</p> $f(x) = (x + 1)^2x$ <p>At $x = 0$ the graph crosses the x-axis and flattens.</p>	<p>8 Is this statement true or false?</p> $f(x) = (x + 2)^4x^3$ <p>At $x = -2$ the graph crosses the x-axis and flattens.</p>		
<p>A False</p>	<p>B True</p>	<p>A False</p>	<p>B True</p>