MCT4C Ontario Educational Resources Bank (OERB) Activities

Exponential Functions	
Activity	Description
Log Rolling (Can be Dicey) Base Exponent Exponential Form Logarithmic Form Resource ID: ELO1178270	Practise converting between logarithmic and exponential forms and evaluating logarithms by answering questions in a challenge activity.
Polynomial Functions	
Activity	Description
Polynomial Concentration Polynomial Concent	Build understanding of characteristics of polynomial functions by matching different representations of a variety of polynomial functions.
Trigonometric Functions	
Activity	Description
Constructing the 30°, 60° Triangle Constructing the 30°, 60° Triangle So, for this bisingle, the Pythingorean Bearers is, 1 + of = 2 to Solving for our ept. 1 + of = 2 and the EXACT value of a is. c = √3 Resource ID: ELO1178300	Build understanding of how the measures in a 30°, 60° triangle are related by viewing how it can be constructed from an equilateral triangle.
Constructing the 45° Triangle Constructing the 45° Triangle Constructing the 45° Triangle This is the 45° triangle. Resource ID: ELO1178310	Build understanding of how the measures in an isosceles right triangle are related by viewing how it can be constructed from a unit square.

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Applications of Geometry	
Activity	Description
Adding Victor's Vectors Sometimes we may want to determine the component vectors. That is, determine what vectors were added together to arrive at the resultant vector. Example: Victor must putch a wheelshornow up a ramp that is at an angle of 15" above horizontal. If it takes a force of 200 N to push the loaded wheelshornow up the ramp what are the vertical of horizontal components of this force? In other words, what is the upward force and what is the horizontal force. Resource ID: ELO1178320	Build understanding of vector addition by viewing an interactive tutorial showing a number of worked examples of real life applications. Practise applying this knowledge by solving similar vector addition problems.
Vector Addition Adding Vectors If we wanted to find the sum of the two vectors here, a + b, geometrically, what we do is slide vector b over so that its tail is at the tip of vector a. The geometric sum of the two vectors, here shown in black, goes from the tail of vector a directly to the tip of vector b. Resource ID: ELO1197530	Practise adding two vectors by dragging given vectors into position to show the component vectors and the resultant vector properly aligned.