

Algebra / Composition of two functions: Basic

TimelyMathTutor Video:

ALEKS | Composition of two functions: Basic



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Worked Examples:

$$\begin{aligned}
 q(x) &= x^2 + 9 \\
 r(x) &= \sqrt{x+8} \\
 (q \circ r)(8) &= q(r(8)) = q(4) = (4)^2 + 9 = 16 + 9 = \boxed{25} \\
 (r \circ q)(8) &= r(q(8)) = r(73) = \sqrt{73+8} = \sqrt{81} = \boxed{9} \\
 q(8) &= (8)^2 + 9 = 64 + 9 = 73
 \end{aligned}$$

#GraphsAndFunctions

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