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WKST 5.3 Key - 2016

① $f^{-1}(x) = \frac{1}{2}x + \frac{3}{2}$

② $f^{-1}(x) = x^2 + 2$

③ $f^{-1}(x) = \sqrt[3]{x-1}$

④ $g'(16) = \frac{1}{3}$

⑤ $g'(1) = \frac{1}{12}$

⑥ $g'(2) = \frac{1}{5}$

⑦ $g'(2) = \cancel{4} 4$

⑧ $g'(\frac{1}{2}) = 2\sqrt{3}/3$

⑨ $(f^{-1})'(4) = \frac{1}{2}$

⑩ $(f^{-1})'(6) = 2/3$

⑪ $(f^{-1})'(1) = \text{DNE}$

⑫ $(f^{-1})'(f'(11)) = \text{DNE}$

⑬ $g'(3) = -\frac{1}{2}$

⑭ $g(8) = 3, g'(8) = \frac{1}{9}$

⑮ A

⑯ H

⑰ D

⑱ G