Writing Equivalent Explicit Exponential Equations from a Point - Answer Key

1. $y = f(x) = (12)\left(\frac{1}{4}\right)^{x-1}$; $y = f(x) = (48)\left(\frac{1}{4}\right)^{x}$
2. $y = f(x) = (1)(2)^{x-3}$; $y = f(x) = \left(\frac{1}{8}\right)(2)^{x}$
3. $y = f(x) = (18)(3)^{x-2}$; $y = f(x) = (2)(3)^{x}$
4. $y = f(x) = \left(\frac{1}{3}\right)(2)^{x-2}$; $y = f(x) = \left(\frac{1}{12}\right)(2)^{x}$
5. $y = f(x) = (5)(3)^{x-1}$; $y = f(x) = \left(\frac{5}{3}\right)(3)^{x}$
6. $y = f(x) = (16)\left(\frac{1}{2}\right)^{x-4}$; $y = f(x) = (256)\left(\frac{1}{2}\right)^{x}$
7. $y = f(x) = (8)(2)^{x-2}$; $y = f(x) = (2)(2)^{x}$; $y = f(x) = (4)(2)^{x-1}$
8. $y = f(x) = (27)(3)^{x-3}$; $y = f(x) = (1)(3)^{x}$; $y = f(x) = (9)(3)^{x-2}$
9. $y = f(x) = (20)\left(\frac{1}{2}\right)^{x-2}$; $y = f(x) = (80)\left(\frac{1}{2}\right)^{x}$; $y = f(x) = (40)\left(\frac{1}{2}\right)^{x-1}$
10. $y = f(x) = \left(\frac{1}{16}\right)(2)^{x-4}$; $y = f(x) = \left(\frac{1}{256}\right)(2)^{x}$; $y = f(x) = \left(\frac{1}{32}\right)(2)^{x-3}$
11. $y = f(x) = (6)\left(\frac{1}{3}\right)^{x-3}$; $y = f(x) = (162)\left(\frac{1}{3}\right)^{x}$; $y = f(x) = (18)\left(\frac{1}{3}\right)^{x-2}$
12. $y = f(x) = (-4)(3)^{x-2}$; $y = f(x) = \left(-\frac{4}{9}\right)(3)^{x}$; $y = f(x) = \left(-\frac{4}{3}\right)(3)^{x-1}$