

$$S. 80/13a) \quad 5^{-2} \cdot 25 = \frac{1}{5^2} \cdot 25 = \frac{25}{25} = 1$$

$$b) \quad 4^{-1} + 2 = \frac{1}{4^1} + 2 = \frac{1}{4} + 2 = 2\frac{1}{4}$$

$$c) \quad \left(\frac{3}{8}\right)^2 \cdot \frac{1}{3} = \frac{3 \cdot 3 \cdot 1}{8 \cdot 8 \cdot 3} = \frac{3 \cdot 1 \cdot 1}{8 \cdot 8 \cdot 1} = \frac{3}{64}$$

$$d) \quad 2^{-2} - \frac{1}{8} = \frac{1}{2^2} - \frac{1}{8} = \frac{1}{4} - \frac{1}{8} = \frac{2}{8} - \frac{1}{8} = \frac{1}{8}$$

$$e) \quad (-3)^{-3} = \frac{1}{(-3)^3} = \frac{1}{(-3) \cdot (-3) \cdot (-3)} = \frac{1}{-27} = -\frac{1}{27}$$

$$f) \quad (-2)^{-4} = \frac{1}{(-2)^4} = \frac{1}{(-2) \cdot (-2) \cdot (-2) \cdot (-2)} = \frac{1}{16}$$

$$g) \quad 5^{-3} \cdot \frac{1}{2} = \frac{1}{5^3} \cdot \frac{1}{2} = \frac{1 \cdot 1}{125 \cdot 2} = \frac{1}{250}$$

$$h) \quad 6^{-3} + \frac{161}{216} = \frac{1}{6^3} + \frac{161}{216} = \frac{1}{6 \cdot 6 \cdot 6} + \frac{161}{216} = \frac{1}{216} + \frac{161}{216} = \frac{162}{216} = \frac{81}{108} =$$

$$= \frac{9}{12} = \frac{3}{4}$$