# Exercises 1

1. Simplify each of the following (*Hint*: use the rules of exponents where needed).

   a. $x = 3pq + 5pr = 2qr + qp - 6rp$

   b. $y = 5l^2mn + 2nl^2m - 3mln^2 + l^2nm + 4n^2ml - nm^2$

   c. $z = \dfrac{(s^{\frac{1}{3}})^{\frac{3}{4}} \times (t^{\frac{1}{4}})^{-1}}{(t^{\frac{1}{2}} \times (s^{-\frac{1}{4}})^{-1})}$

2.