

Answers

1 a $(x + 2)^2 - 1$

b $(x - 5)^2 - 28$

c $(x - 4)^2 - 16$

d $(x + 3)^2 - 9$

e $(x - 1)^2 + 6$

f $\left(x + \frac{3}{2}\right)^2 - \frac{17}{4}$

2 a $2(x - 2)^2 - 24$

b $4(x - 1)^2 - 20$

c $3(x + 2)^2 - 21$

d $2\left(x + \frac{3}{2}\right)^2 - \frac{25}{2}$

3 a $2\left(x + \frac{3}{4}\right)^2 + \frac{39}{8}$

b $3\left(x - \frac{1}{3}\right)^2 - \frac{1}{3}$

c $5\left(x + \frac{3}{10}\right)^2 - \frac{9}{20}$

d $3\left(x + \frac{5}{6}\right)^2 + \frac{11}{12}$

4 $(5x + 3)^2 + 3$