

Strategy 1: Solve by factoring.
a) $x^{2}-x-6=0$
b) $8 x^{2}-10 x+3=0$

Strategy 2: Take the square root of both sides.
a) $2 x^{2}=14$
b) $(2 x-5)^{2}-3=0$
c) $x^{2}+9=0$

Strategy 3: Complete the square.
a) $x^{2}+4 x+1=0$
b) $x^{2}-10 x-15=0$
c) $3 x^{2}-24 x-5=0$
d) $x^{2}-x-6=0$

Strategy 4: Use the Quadratic Formula.
a) $x^{2}+9 x+14=0$
b) $2 x^{2}+5 x-6=0$

Solve these using the quadratic formula.
a) $2 x^{2}=14$
b) $8 x^{2}-10 x+3=0$

Solve using any strategy.
a) $9 x^{2}+18 x-135=0$
b) $(y+4)^{2}-18=0$
c) $5 x^{2}-16 x=-2$
d) $2 y(y-2)=7$
e) $x^{2 / 3}-9 x^{1 / 3}+8=0$

