

Quadratics—Solving via Formula

Bronze

- 1) $x^2+x-9=0$
- 2) $x^2+8x-11=0$
- 3) $x^2+x-3=0$
- 4) $x^2+15x-19=0$
- 5) $x^2+11x-2=0$
- 6) $x^2-13x-12=0$
- 7) $x^2-3x-13=0$
- 8) $x^2+3x-14=0$
- 9) $x^2+5x+1=0$
- 10) $x^2-13+16=0$

Silver

- 1) $2x^2-11x+4=0$
- 2) $4x^2-14x-4=0$
- 3) $6x^2-13x+4=0$
- 4) $2x^2-4x-14=0$
- 5) $2x^2-x-8=0$
- 6) $3x^2+10x-20=0$
- 7) $4x^2-14x+11=0$
- 8) $4x^2-14x-3=0$
- 9) $6x^2-8x+3=0$
- 10) $2x^2-15=0$

Gold

- 1) $4x^2-9x-3=0$
- 2) $-x^2+6x+19=0$
- 3) $-2x^2+4x+5=0$
- 4) $-x^2-3x+3=0$
- 5) $-5x^2+2=0$
- 6) $-x^2-5x+7=0$
- 7) $-6x^2+9x+18=0$
- 8) $2x^2+10x-16=0$
- 9) $3x^2-11x-18=0$
- 10) $6x^2-2x-12=0$

Platinum

- 1) A ticket printing machine cuts rectangular cards which are 3cm longer than they are wide. If x is the width, find the width if the ticket has an area of 15cm^2 .
- 2) Solve the equation $x^2 = 5x+7$
- 3) A window manufacturer makes a range of windows for which the height is 0.5m greater than the width. Find the width and height of a window with an area of 2m^2