Algebra 2 - Raad Name:_____

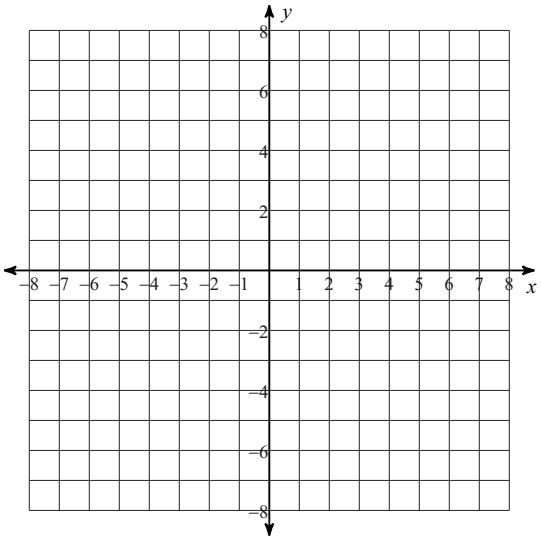
Graphing Poly. - Factored Form

Date:_____ Hour:____

1) $y = (x - 4)(x + 5)(x + 1)$

Zeros:

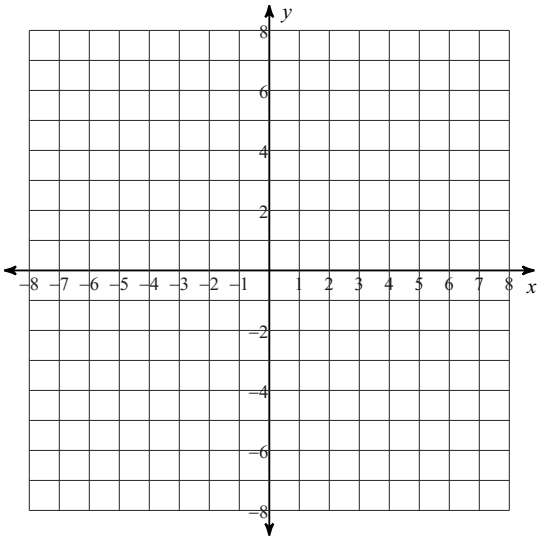
E.B.:



2) $y = (x - 1)(x + 2)(x - 4)(x + 5)$

Zeros:

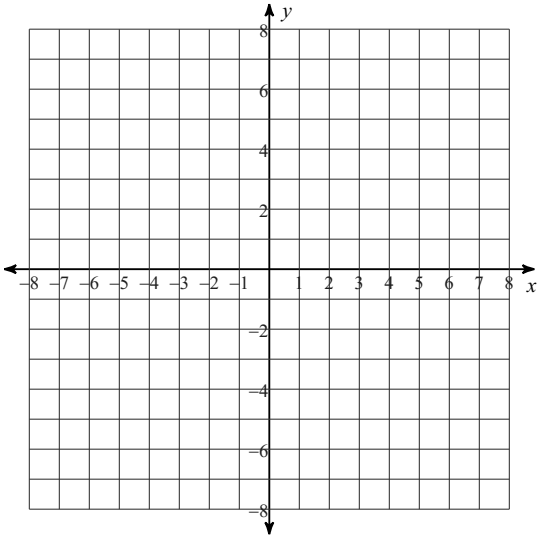
E.B.:



3) $y = -x(x - 4)(x + 6)(x + 2)$

Zeros:

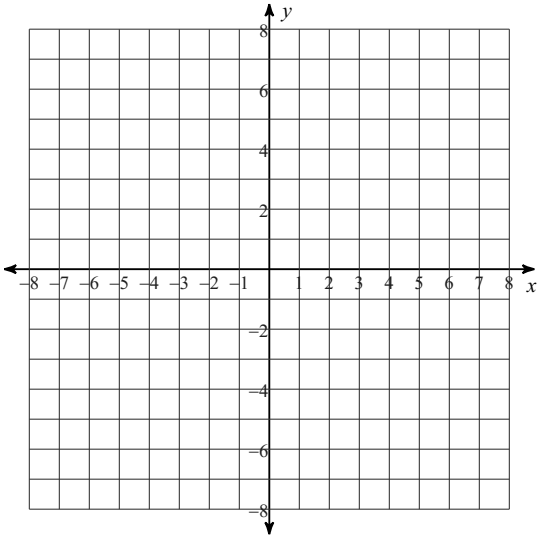
E.B.:



4) $y = -(x + 8)(x - 5)(x + 3)$

Zeros:

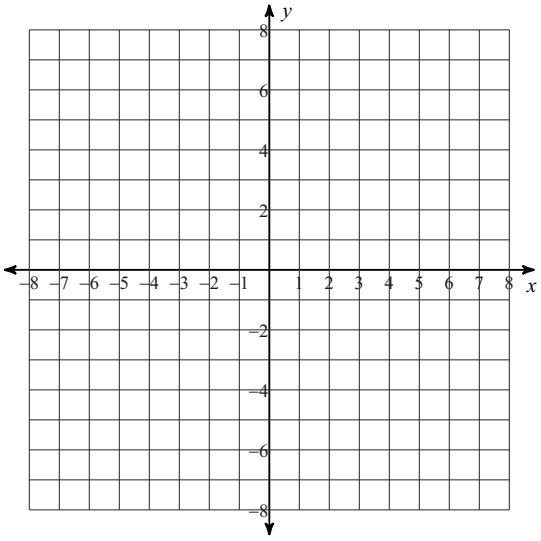
E.B.:



5) $y = -x(x-5)(x-2)(x+6)$

Zeros:

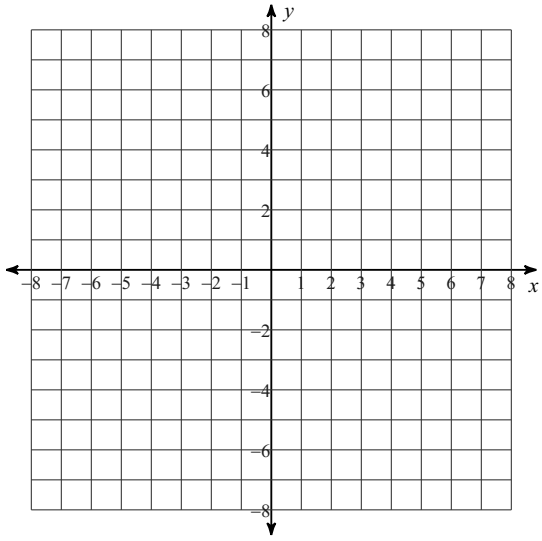
E.B.:



6) $y = -(x-1)(x-5)(x+5)$

Zeros:

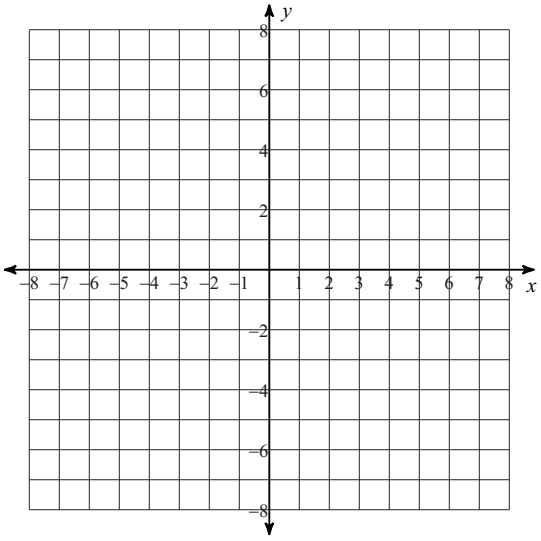
E.B.:



7) $y = (x+6)(x+3)(x+2)(x-2)$

Zeros:

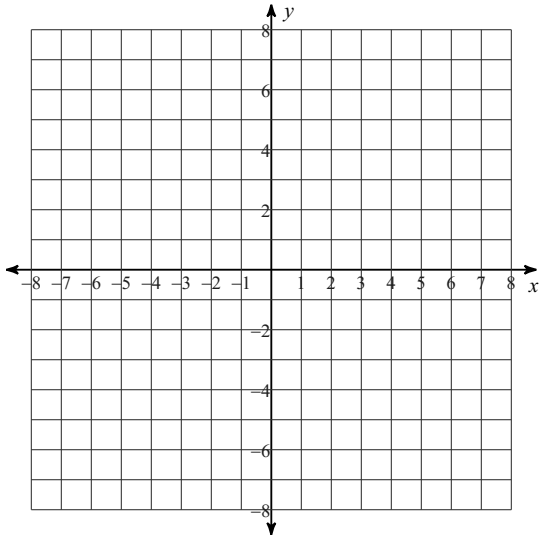
E.B.:



8) $y = x(x+4)(x-4)$

Zeros:

E.B.:



Answers to Graphing Poly. - Factored Form

1) Zeros: x = –5, –1, 4
   E.B.: +O ; down, up
2) Zeros: x = –5, –2, 1, 4
   E.B.: +E ; up, up
3) Zeros: x = 0, –6, –2, 4
   E.B.: -E ; down, down
4) Zeros: x = –8, –3, 5
   E.B.: -O ; up, down
5) Zeros: x = 0, –6, 2, 5
   E.B: -E ; down, down
6) Zeros: x = –5, 1, 5
   E.B.: -O ; up, down
7) Zeros: x = –6, –3, –2, 2
   E.B: +E ; up, up
8) Zeros: x = 0, –4, 4
   E.B.: +O ; down, up