DIRECTIONS: SHOW YOUR WORK. CIRCLE YOUR FINAL ANSWERS

1. (20 points) Factor each *completely*.

(a) $8x^2 - 8x - 30$

(b) $12x^2 + 20x + 8$

(c) $4x^2 + 2x - 20$

(d) $5x^2 + 27x - 18$

(e) $24x^2 + 56x + 30$

(f) $12x^2 + 8x - 15$

Key:

1. $2(2x-5)(2x+3)$
2. $4(x+1)(3x+2)$
3. $2(x-2)(2x+5)$
4. $(x+6)(5x-3)$
5. $2(2x+3)(6x+5)$
6. $(2x+3)(6x-5)$