Tuesday wk 5 Warm-up: quick quiz Name_____

Factor the following: show all work

a.) $4x^2+ 10x$

b.) $4x^2-9$

c.) $11x^3-9x^2+11x-9$

d.) $24x^3+60x^2+36x+90$

e.) $18x^2-27$

f.) $x^2-12x +36$

Algebra 1 Wk 5 Tues CW/HW 8.6 Common Core Applications of Factoring

Remember: Area of a rectangle: A=LW

1. The length of a rectangle is 3x+2, the width is 2x-7. What is the area of the rectangle?

2. The length of a rectangle is 4x-1, the width is x+5. What is the area of the rectangle?

3. The length of a rectangle is 2x-3, the width is 5x+4. What is the area of the rectangle?

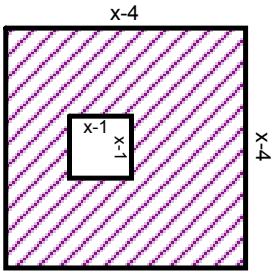
4. The area of a rectangular computer screen is $4x^2+20x+16$. The width of the screen is 2x+8. What is the length of the screen?

5. The area of a rectangular granite countertop is $12x^2+10x-12$. The width of the countertop is 2x+3. What is the length of the countertop?

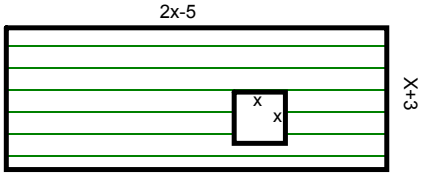
6. The area of a rectangular book cover is $4x^2-6x-40$. The width of the book cover is 2x-8. What is the length of the book cover?

7. Find an expression that represents the area of the shaded region.

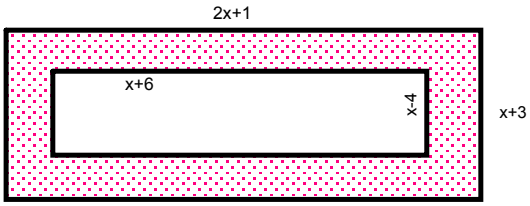
A)



B)



C)



HW: Finish CW