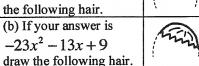
Lesson 3: Operations on Polynomials

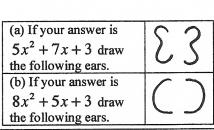
Directions: Solve each problem. SHOW YOUR STEPS!!!

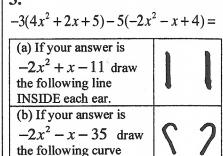
1.		
$(-3x^2 + 5x -$	$-3)-4(5x^2)$	$^{2} + 2x - 3) =$

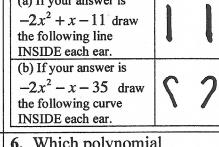
(a) If your answer is $-23x^2 - 3x + 9$ draw	
the following hair.	1



2.	
$(2x^2 - x + 7) +$	$-2(3x^2 + 3x - 2) =$



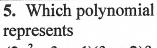




4. Which polynomial represents

$$\frac{1}{2}\left(-8x^2 - 16x - 4\right) + 3\left(9x^2 + 12x - \frac{1}{2}\right)?$$

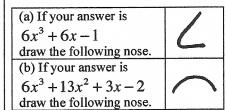
- '	
(a) If your answer is $23x^2 + 28x - \frac{7}{2}$ draw the following eyes and glasses.	
(b) If your answer is $23x^2 + 20x - \frac{7}{2}$	*O-O-

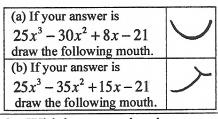


-			
$(2x^2)$	+3x-	-1)(3 x -	+2)?

o. Willow pory morning.
represents
$(5x^2+x+3)(5x-7)$?

	eyes and glasses.	
	(b) If your answer is	
	$23x^2 + 20x - \frac{7}{2}$	70-0
	draw the following	
	eyes and glasses.	
Γ	7. Which expressi	on is





equivalent to $(2x^3-x)(3x^2-x+4)$?

(a) If your answer is	
$6x^5 - 2x^4 + 5x^3 + x^2 - 4x$	00
draw three freckles on	0
EACH CHEEK.	
(b) If your answer is	
$6x^5 + 2x^4 + 5x^3 + x^2 - 4x$	00
draw three freckles on the	0
NOSE	

8. Which expression is equivalent to $(2x^5+6x)(2x^2+3x-9)$?

(a) If your answer is	
$4x^7 + 6x^6 - 18x^5 - 12x^3 -$	$-18x^2 - 54x$
draw horizontal stripes	
on the shirt.	

(a) If your answer is	
$4x^7 + 6x^6 - 18x^5 - 12x^3 - 18x^2 - 54x$ draw horizontal stripes	
on the shirt.	
(b) If your answer is	
$4x^7 + 6x^6 - 18x^5 + 12x^3 + 18x^2 - 54x$	

diaw die following me		iaw die ionownig moden	-1
	9.	Which expression	is
	eq	uivalent to	
	(2	(x+1)(2x-1)?	

(a) If your answer is	
$6x^5 - 2x^4 + 5x^3 + x^2 - 4x$	00
draw three freckles on	O
EACH CHEEK.	•
(b) If your answer is	
$6x^5 + 2x^4 + 5x^3 + x^2 - 4x$	00
draw three freckles on the	0
NOSE.	

(a) If your answer is	
$4x^7 + 6x^6 - 18x^5 - 12x^3 - $ draw horizontal stripes on the shirt.	$\frac{-18x^2 - 54x}{=}$

10. Which expression is equivalent to (3y-2)(3y+2)?

(a) If your answer is	ΩΩ
$9y^2 - 12y - 4 draw$	
TWO pins on the lane.	00
(b) If your answer is	anno
$9y^2 - 4$ draw	
MANV nine on the lane	un m

MANY pins on the lane.

11. Which expression is equivalent to $(-3x+5)(2x^2-3)$?

draw vertical stripes

on the shirt.

(//	
(a) If your answer is	
$-6x^3 - 15$ draw THREE	(%)
bowling balls in the	(8) 3
background.	
(b) If your answer is	
$-6x^3 + 10x^2 + 9x - 15$	(00)
draw ONE bowling ball in	
the background.	

(a) If your answer is $4x^2 - 1$ draw the following lane in the background.	
(b) If your answer is	<u> </u>
$4x^2 - 4x - 1 \text{ draw}$	7 7
the following lane in	1 1 5 2 1 - 1
the background.	

12. Which expression is equivalent to $(2v^3 \pm 5)(4v - 2)$?

(2y + 3)(4y - 2)?	
(a) If your answer is	
$8y^4 - 10$ write the	SPARE
SPARE word in the	011111
background.	
(b) If your answer is	
$8y^4 - 4y^3 + 20y - 10$	STRIKE
write the word STRIKE	DIMING
in the background.	