1. $(8 - \sqrt{14})^2$

2.
$$(\sqrt{33} + 5\sqrt{6})^2$$

3.
$$(9+2\sqrt{5})(9-2\sqrt{5})$$

4.
$$(4\sqrt{10} - \sqrt{3})(4\sqrt{10} + \sqrt{3})$$

- 5. A bakery uses a special flour mixture that contains corn, wheat, and rye in the ratio 3:5:2. If a bag of the mixture contains 5 pounds of rye how many pounds of wheat does it contain?
- A. 2
- B. 5
- C. 7.5
- D. 10
- E. 12.5

Bellwork A Simplify each.

Alg 2B

Friday, September 22, 2017

Answers

1. $(8 - \sqrt{14})^2$

2.
$$(\sqrt{33} + 5\sqrt{6})^2$$

$$= 183 + 10.3\sqrt{22}$$
$$= (183 + 30\sqrt{22})$$

$$\sqrt{33} + 5\%$$
 $\sqrt{33} + 5\%$
 $\sqrt{3$

3.
$$(9+2\sqrt{5})(9-2\sqrt{5})$$

$$9^{2}-b^{2} = (9)^{2}-(215)^{2} = 81-4.5$$

= $81-20$

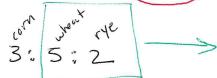
4.
$$(4\sqrt{10} - \sqrt{3})(4\sqrt{10} + \sqrt{3})$$

$$a^{2}-b^{2} = (470)^{2} - (73)^{2}$$

$$= 16.10 - 3$$

$$= 160 - 3 = (157)^{2}$$

- 5. A bakery uses a special flour mixture that contains corn, wheat, and rye in the ratio 3:5:2. If a bag of the mixture contains 5 pounds of rye how many pounds of wheat does it contain?
- A. 2
- B. 5
- C. 7.5
- D. 10
- (E. 12.5)



X = 12.5 16s wheat