

## Problem Set 32 — Even Answers

2. 280 fives, 56 hundreds

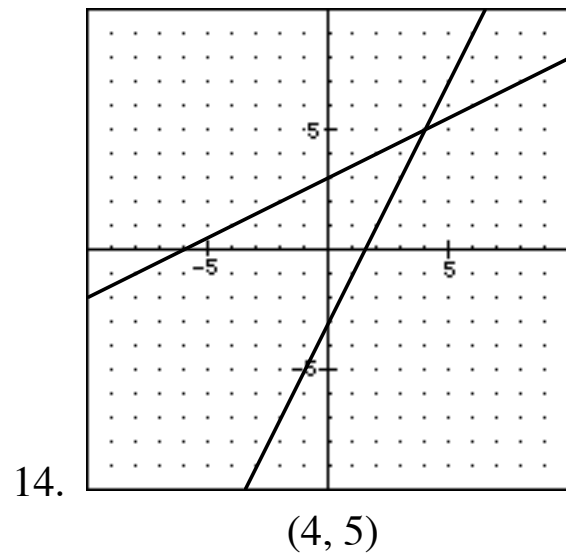
4. 40 red, 250 blue

6.  $40\pi \text{ cm}^3$ ,  $160\pi \text{ cm}^3$   
4 times larger

8.  $7mx^4y^2(5x^3y^3 - mx + 2my^5)$

10.  $(x - 4)(x - 2)$

12.  $ab(x + 2)(x - 1)$



16a.  $m = \frac{3}{7}$

b.  $d = \sqrt{58} \approx 7.616$

18a.  $y = -4$

b.  $y = \frac{3}{5}x - 4$

c.  $y = -\frac{3}{2}x - 4$

20a.  $f(3) = 10$

b.  $f(x + h) - f(x) = 4h$

22.  $A = \sqrt{41}$ ,  $B = \frac{3\sqrt{41}}{4}$ ,  $C = \frac{35}{4}$

24.  $w = 80$ ,  $x = 30$ ,  
 $y = 150$ ,  $z = 20$

26.  $x = -\frac{21}{2}$

28.  $-15\sqrt{3}$

30. 1