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6e 1 1 -4 1 3 1

Area = | a × b

| = = | (1 - 15) a

x + (6 + 4) a y +

(-20 - 2) a z | 2

2 2 5 1 2 (b) 9

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1.13 =  $\sqrt{(-14)^2 + 10^2 + (-22)^2}$   
 $= \sqrt{196 + 100 + 484} = \sqrt{780} = 27.93$

1.17 Given

$$r_P = (-1, 4, 8),$$

$$r_Q = (2, -1, 3),$$

$$r_R = (-1, 2, 3)$$

(a)  $|PQ| = \sqrt{9 + 25 + 25} = \sqrt{59} = 7.6811$

(b)  $PR = -2a \hat{y} - 5a \hat{z}$

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however, the EM  
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computational  
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