

Try This 4 Possible Solutions

16. a) Error: If you expand $(2u - 7)(3u + 2)$, you do not get $6u^2 + 17u - 14$.

$$\begin{aligned}(2u - 7)(3u + 2) &= 2u(3u + 2) - 7(3u + 2) \\ &= 6u^2 + 4u - 21u - 14 \\ &= 6u^2 - 17u - 14\end{aligned}$$

Correction:

Product	Sum	Numbers
$6 \times (-14) = -84$	17	-4 and 21

$$\begin{aligned}6u^2 + 17u - 14 &= (6u^2 - 4u) + (21u - 14) \\ &= 2u(3u - 2) + 7(3u - 2) \\ &= (3u - 2)(2u + 7)\end{aligned}$$

17. Error: Incorrect sign on the second $5g + 6$. This binomial should be $5g - 6$.

Correction:

$$\begin{aligned}15g^2 - 17g - 42 &= (15g^2 - 18g) + 35g - 42 \\ &= 3g(5g - 6) + 7(5g - 6) \\ &= (5g - 6)(3g + 7)\end{aligned}$$