

Hw: Red text p. 215 #1-6

Red text p. 218 #1-6

11/28

39

1.) $x^2 + 5x + 4$
ans: $(x+1)(x+4)$

$$\begin{array}{r} ac \\ +4 \\ \hline 4 \quad 1 \\ \hline 5 \\ b \end{array}$$

2.) $z^2 + 9z + 8$
ans: $(z+1)(z+8)$

$$\begin{array}{r} ac \\ 8 \\ \hline 1 \quad 8 \\ \hline 9 \\ b \end{array}$$

3.) $r^2 - 6r + 8$
ans: $(r-2)(r-4)$

$$\begin{array}{r} ac \\ 8 \\ \hline -4 \quad -2 \\ \hline -6 \\ b \end{array}$$

4.) $C^2 - 10C + 16$
ans: $(C-2)(C-8)$

$$\begin{array}{r} ac \\ 16 \\ \hline -2 \quad -8 \\ \hline -10 \\ b \end{array}$$

5.) $y^2 - 9y + 14$
ans: $(y-2)(y-7)$

$$\begin{array}{r} ac \\ 14 \\ \hline -2 \quad -7 \\ \hline -9 \\ b \end{array}$$

6.) $p^2 - 14p + 13$
ans: $(p-1)(p-13)$

$$\begin{array}{r} ac \\ 13 \\ \hline -1 \quad -13 \\ \hline -14 \\ b \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 1.) \quad y^2 + 5y - 6 \\
 \text{ans: } (y+6)(y-1)
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -6 \\
 \hline
 (-1) \quad (6) \\
 \hline
 5 \\
 b
 \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 2.) \quad y^2 - 3y - 4 \\
 \text{ans: } (y+1)(y-4)
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -4 \\
 \hline
 (-4) \quad (1) \\
 \hline
 -3 \\
 b
 \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 3.) \quad x^2 - 6x - 16 \\
 \text{ans: } (x-8)(x+2)
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -16 \\
 \hline
 (-8) \quad (2) \\
 \hline
 -4 \\
 b
 \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 4.) \quad x^2 + 2x - 8 \\
 \text{ans: } (x+4)(x-2)
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -8 \\
 \hline
 (4) \quad (-2) \\
 \hline
 2 \\
 b
 \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 5.) \quad c^2 - 4c - 12 \\
 \text{ans: } (c-6)(c+2)
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -12 \\
 \hline
 (-6) \quad (2) \\
 \hline
 4 \\
 b
 \end{array}$$

$$\begin{array}{r}
 a \quad b \quad c \\
 6.) \quad u^2 - 10u - 9 \\
 \text{not factorable}
 \end{array}
 \quad
 \begin{array}{r}
 ac \\
 -9 \\
 \hline
 -10 \\
 b
 \end{array}$$