

Factor each completely.

1. $c^2 + 18c + 80 =$

2. $k^2 - 6k - 72 =$

3. $a^2 - 15a + 56 =$

4. $12m^2 - 13m - 14 =$

5. $48b^3 - 184b^2 + 160b =$

1

Factor each completely.

1. $c^2 + 18c + 80 =$

$$(c+8)(c+10)$$

2. $k^2 - 6k - 72 =$

$$(k-12)(k+6)$$

3. $a^2 - 15a + 56 =$

$$(a-8)(a-7)$$

4. $12m^2 - 13m - 14 =$

$$(3m+2)(4m-7)$$

$$\begin{array}{r} -168 \\ -21 \times +8 \\ -13 \end{array}$$

	4m	-7
3m	12m ²	-21m
+2	+8m	-14

5. $48b^3 - 184b^2 + 160b =$

$$8b(6b^2 - 23b + 20) = 8b(3b-4)(2b-5)$$

$$\begin{array}{r} 120 \\ -8 \times -15 \\ -23 \end{array}$$

	2b	-5
3b	6b ²	-15b
-4	-8b	+20

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