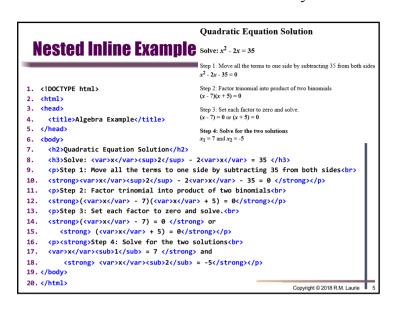


X/HTML: Inline -Text Markup Elements Some of the Inline Text Markup Elements **Semantic Markup** Format Markup? ♦ Usually bold = Usually bold abc ♦ Emphasize = Usually italics <i>abc</i> ◆ Deleted text = Deleted text <s>abc</s> ♦ <ins> Inserted text</ins> = Inserted text <u>abc</u> ♦ _{Subscript text} = Subscript text Superscript text ♦ ^{Superscript text} Marked text ♦ <mark>Marked text</mark> ♦ <small>Smaller text</small> = Smaller text ♦ <abbr title="Japan">JP</abbr> = JP * Break Line is an Inline and Empty Element ◆ The line will break
 or
> here Copyright © 2018 R.M. Laurie

```
X/HTML: Inline - Symantec Elements
Computer Code Symantec Markup
   ◆ <code>computer code</code> = usually monospaced
   ♦ <samp>sample output</samp> = usually monospaced
   ♦ <kbd>keyboard input</kbd>
                                   = usually monospaced
   ♦ <var>variable markup</var>
                                   = usually italics
❖ Miscellaneous Inline Text Markup Elements
   ♦ <cite>title of a work</cite>
                                   = usually italics
   ♦ <span>specifying text</span>
                                   = no inherent formatting
   ◆ preformatted text
                                   = monospaced and
    all white space displayed including multiple spaces,
    tabs, and new lines
                                           Copyright © 2018 R.M. Laurie
```



```
Special Characters and Symbols
   
              1. <!DOCTYPE html> <html lang="en"><head>
< &lt:
            &#60:
                  2. <meta charset="utf-8">
> >
            &#62;
                  3. <title>Character Encoding & Colors </title>
& &
            &#38:
 &quote;
            "
                  5. <body style="background-color: yellow; color: blue;">
            © 6.
© ©
                     <h2>WebRate&trade:</h2>
Ñ Ñ
           Ñ 7.
                     <h3>Todays Rates:<br>
                     US$ 100.00 = JP¥ 11,275 = UK£ 67.30</h3>
           &#241:
ñ &ntilde:
                   Copyright © 2016 WebRate™
            °
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                   10.     Hågatña, Guam
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                   11. </body>

    •

                   12. </html>
™ ™
» »
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                          WebRate<sup>TM</sup>
  →
± ±
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                          Todays Rates:
¥ ¥
            ¥
                          US$ 100.00 = JP\{11,275} = UK\{2000} 67.30
            ®
® ®
           £
£ £
                          Copyright © 2016 WebRate<sup>TM</sup> Hågatña, Guam
            å
å å
                                           Copyright © 2018 R.M. Laurie
```

```
Character Encoding
* X/HTML Character encoding specifies the document character
   set used for webpage.
    ◆ Standard US ASCII XHTML designation
       <meta http-equiv="content-type" content="text/html; charset=us-ascii" />
    ♦ Western European Languages XHTML designation
       <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    ◆ Unicode UTF-8 Recommended for X/HTML documents and includes
      character glyphs for all human languages
      <meta http-equiv="content-type" content="text/html; charset=utf-8" />
HTML5 simplifies Character encoding meta tag
   <meta charset="utf-8">
* Language Specification uses <a href="https://www.seps.com/specification-uses">httml> language attribute</a>
    ◆ <html lang="en"> Primary language in document is English
    ◆ <a href="html lang="es"> Primary language in document is Spanish
    ◆ <a href="html lang="ru"> Primary language in document is Russian</a>
    ♦ <a href="html lang="ia"> Primary language in document is Japanese
    ◆ <html lang="zh"> Primary language in document is Chinese
                                                            Copyright © 2018 R.M. Laurie
```

```
Factoring Trinomial using AC Method
                                                                             Assignment 1 - Part B:
                                                                                  Code the factoring
Solve: 6x^3 - 40x^2 + 56x
                                                                            shown as valid HTML5.
Step 1: 2x [3x^2 - 20x + 28] Factor out anything common to all terms.
                                                                                     Verify validation
Step 2: 2x \left[ 3x^2 + (-20)x + 28 \right] Write trinomial in standard form ax^2 + bx + c
                                                                                         using the site
                                                                                     validator.w3.org
Step 3: 2x \left[ \frac{3x^2 + (-20)x + \frac{28}{3}}{2} \right] Determine product of a \cdot c = 3 \cdot 28 = 84
Step 4: List all pairs of factors of a-c If a-c is negative, then factors have opposite signs.
If a c is positive, then factors have same signs. Sign of b determines sign of factors.
Factors of 84 are: -1, -84 -4, -21 -6, -14 -7, -12
Select factor pair such that their sum is b term = -20
Step 5: Split middle term b order factors as muliple of the a and c terms
2x \left[ 3x^2 + \frac{(-6)x + (-14)x}{2} + 28 \right]
Step 6: Factor out something common to first two terms.
2x \left[ 3x^2 + (-6)x + (-14)x + 28 \right] \rightarrow 2x \left[ 3x(x-2) + (-14)x + 28 \right]
Step 7: Factor out same binomial in last two terms.
2x [3x(x-2) + (-14)(x-2)]
Step 8: Apply Distributive Law and convert trinomial into the product of two binomials
2x [(3x-14)(x-2)] \rightarrow 2x(3x-14)(x-2) This is the answer
                                                                                      Copyright © 2018 R.M. Laurie
```