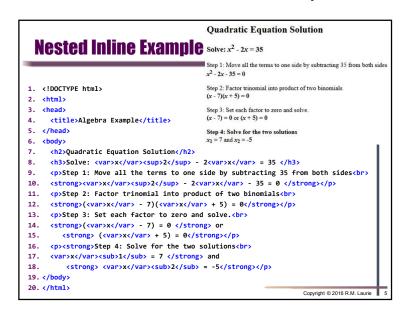


X/HTML: Inline -Text Markup Elements Some of the Inline Text Markup Elements **Semantic Markup** Format Markup? ♦ Usually bold = Usually bold abc ♦ Emphasize = Usually italics <i>abc</i> ◆ Deleted text = Deleted text <s>abc</s> ♦ <ins> Inserted text</ins> = Inserted text <u>abc</u> ♦ _{Subscript text} = 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 © 2016 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 © 2016 R.M. Laurie
```

CMST385: Slide Set 2 - Inline Elements and Symbols



```
Special Characters and Symbols
              1. <!DOCTYPE html> <html lang="en"> <head>
   
< &1t;
            &#60;
                 2. <meta charset="utf-8">
            >
> >
                 3. <title>Character Encoding & Colors </title>
            &#38;
& &
            " 5. <body style="background-color: yellow; color: blue;">
  &quote;
© ©
            © 6.
                      <h2>WebRate&trade:</h2>
Ñ Ñ
            Ñ 7.
                      <h3>Todays Rates:<br>
                      US$ 100.00 = JP¥ 11,275 = UK£ 67.30</h3>
ñ &ntilde:
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                      Copyright © 2016 WebRate™
° °
            &#176;
                   10.     Hågatña, Guam
&middot:
           ·
                   11. </body>

    &bull:

                   12. </html>

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± ±
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                          Todays Rates:
¥ ¥
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                          US$ 100.00 = JP¥ 11,275 = UK£ 67.30
® ®
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£ £
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                          Copyright © 2016 WebRate™ Hågatña, Guam
å å
            å
                                            Copyright © 2016 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 https://www.news.com/html language attribute ◆ <html lang="en"> Primary language in document is English ◆ Primary language in document is Spanish ◆ <html lang="ru"> Primary language in document is Russian ◆ <html lang="ja"> Primary language in document is Japanese ♦ Primary language in document is Chinese

```
Factoring Trinomial using AC Method
                                                                             Assignment 1 - Part B:
                                                                                   Code the factoring
                                                                             shown as valid HTML5.
Solve: 6x^3 - 40x^2 + 56x
                                                                                      Verify validation
Step 1: 2x [3x^2 - 20x + 28] Factor out anything common to all terms.
                                                                                          using the site
                                                                                      validator.w3.org
Step 2: 2x [3x^2 + (-20)x + 28] Write trinomial in standard form ax^2 + bx + c
Step 3: 2x [3x^2 + (-20)x + (-28)] Determine product of a \cdot c = 3 \cdot 28 = 84
Step 4: List all pairs of factors of a \cdot c If a \cdot 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}{(-6)x + (-14)x} + (-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 and a monomial
2x [(3x-14)(x-2)] \rightarrow 2x(3x-14)(x-2) This is the answer
```

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