Finding Angle Measures - Examples

1) If \( \angle ABD = 31^\circ \), then find the following
   a) \( \angle BEA = \) ______  b) \( \angle AEF = \) _______

2) If \( \angle BDC = 80^\circ \), then find the following
   a) \( \angle ADE = \) _______  b) \( \angle ADB = \) _______
   c) \( \angle CBE = \) ______  d) \( \angle CDE = \) _______

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2) If \( \angle VPJ = 2x \) and \( \angle VPC = 4x \), find the following:
   a) \( x = \) _______  b) \( \angle VPJ = \) _______
   c) \( \angle VPC = \) _______
   d) \( \angle CPX = \) _______
   e) \( \angle XPQ = \) _______  f) \( \angle QPV = \) _______

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3) The measure of \( \angle C \) is \( (2x + 56)^\circ \). The measure of \( \angle I \) is \( (208 + 5x)^\circ \). If \( \angle C \) is the supplement of \( \angle I \), what are the measures of the two angles?

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4) In triangle ABC, the measure of \( \angle A \) is \( (3x - 1)^\circ \), the measure of \( \angle B \) is \( (x + 7)^\circ \), and the measure of \( \angle C \) is \( (x - 1)^\circ \).
   a) \( x = \) _______  b) \( \angle A = \) _______  c) \( \angle B = \) _______  d) \( \angle C = \) _______