Unit 4 Quiz 2 Review

**Squares**

**Use square ABCD below for #1-3**

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|  | If $\overbar{AD}=55 and \overbar{BC}=x-3;solve for x$ |  |
|  | If $m<DED=4x-16;solve for x$ |  |
|  | If $m<EDC=3x;solve for x$ |  |

**Rhombi**

**Use rhombus ABCD below to answer questions 4-6.**

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|  | If $\overbar{AB}=3x-2and BC=2x-3;solve for x$ |  |
|  | If $m<BCE=3x-1 and m<ECD=5x-5;what is m<ECD? $ (hint: solve for x first) |  |
|  | If $m<DEC=2x+20; solve for x$ |  |

**Trapezoids**

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|  | **QTSR is an isosceles trapezoid. Solve for <SRQ** |  |
|  | **Solve for x in the isosceles trapezoid above** |  |
|  | **Trapezoid ADCB below is an isosceles trapezoid.** **If AB=7x-1 and DC=8x+11; solve for x;** **Can you solve for AD? Why or why not?**Image result for isosceles trapezoid |  |

**Kites**

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|  | **Find m<EHGUsing the fact that there are 3600 total in a quadrilateral, now solve for <HGF** |  |
|  | **In the kite below, solve for x:**Image result for kite + pythagorean theorem**x** |  |
|  | **Solve for angle x:** Image result for kite geometry |  |