P #13

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a) From question #12: $E_3 = -1.51\,eV$
$E_5 = -.54\,eV$
$E_7 = -.28\,eV$

$E_{3\to5} = E_5 - E_3$
$= -.54eV - -1.51eV$

$\boxed{E_{3\to5} = .97\,eV}$

b) $E_{5\to7} = -.28eV - -.54eV$

$\boxed{E_{5\to7} = .27\,eV}$