Regression Sample Solutions Sunday, February 26, 2023 regr. line 1a. 20.13 24.8 20.13 24.8 - 20.13 = 4.67rise = slope · run = r. SD(Y) .rum = .82. 4.90 . 4.67 ~ 5.14 Yest = 15.86 + 5.14 = 21.0 (for predicting X from Y) 15.86 21.0 Ten= 21.0-15.86=5.14 Yest = 20.13 + 3.14 = [23.27] Find shaded area 2013 24.8 y data in thinvert. Strip $2 = \frac{15.86 - 21.0}{\sqrt{1 - .82^2 \cdot 4.90}} \approx -1.83$ Area = 50+93/2= 1778 3. W 80th V percentile 2 for 80th percentile ~.84 20/60/20.84/60 run = .84 (stunderd units for V) rise = r.run = (,65)(.84) 2.55 (Standard mits) for W percentile = 50 + 43/2 = 71%