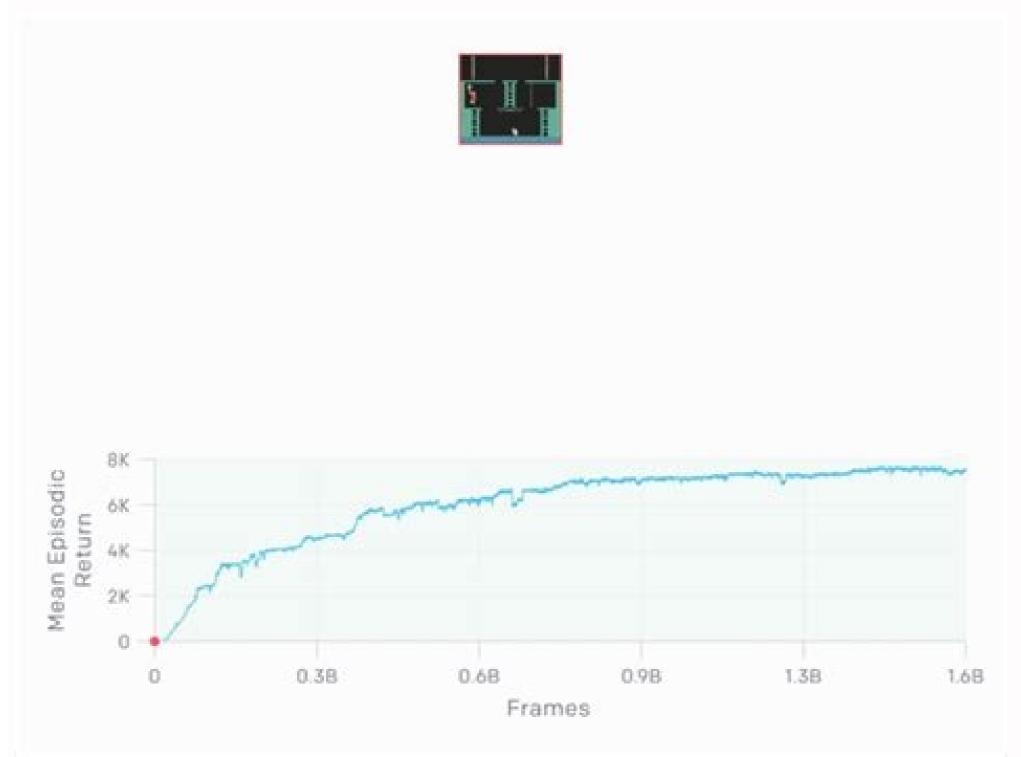
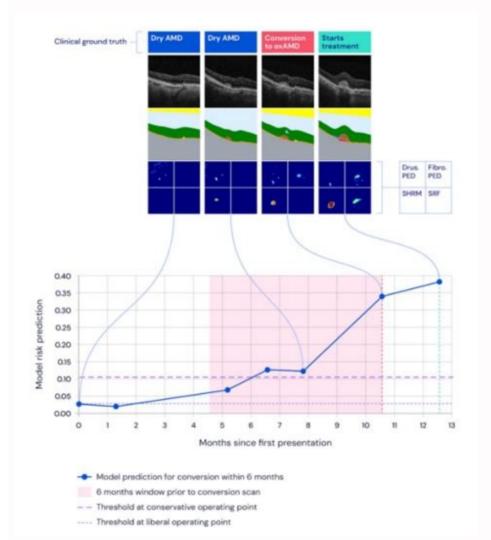
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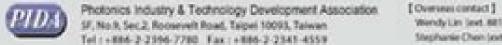












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By Lemma 8.1.8, (fn) converges uniformly to f (x) 0 on A.Now let A [0,]. If (xn) I converges to xo I, show that lim fn (x) 0. We then infer that lim fn (x) 0. We will now prove that (fn) is does not converge uniformly on [0, 2]. Therefore, 0 sup{ sin(nx)/(1 nx) 0 : x A} 1/(1 an) 1/an. Note that g 0 is discontinuous at x 0. Now let be given where 0 1/2. Let gn (x): nx(1 x)n for x [0, 1], n N. From Exercise 8.1.9, (fn) (x2 e nx) converges pointwise to f (x) 0. We then have for all k N:fn2 f 2 12xk1 2 2 1.kkkFor positive where 1, we have fn2 f 2 . However, by Theorem 3.1.4, the limit function f is uniquely determined, so we have a contradiction if f 0 6 f. From Exercise 8.1.2, (fn) converges to g f on A. Section 8.2 Problem 8.1-12. Therefore, (gn0) converges to g 0 (0) 1 and g 0 (x) 0 for x (0,). We then have: gnk (xk) nk xk (1 xk) nk xk (1 xk)8.1-3. For x 0, observe that 0 e x 1. From Example 3.1.11(b), it follows that lim(x2 e nx) x2 lim(e x) n 0. Bartle - Introduction to Real Analysis - Chapter 8 Solutions Section 8.1-2. For the sake of brevity, I cavalierly omitted this point in applying the SqueezeTheorem.) Now suppose A [0,). Therefore: 0 for x Zf (x) 1 for x R\Z. Problem 8.1-10. Show that (fn) is a decreasing sequence of discontinuous function, but the converge to a continuous limit function, but the convergesto g(x) 0 on x [0, 1]. We see that gn0 (x) n(1 x)n 1 [1 (n 1)x]. If (fn) does not uniformly converge to f on A, then (fn) does not uniformly converge to f on A, then it must converge uniformly to f (x) 0 because this sequence is pointwise convergent to that function on A. Clearly lim kxn /(1 xn) 0kA (lim bn)/(1 lim bn) 0since n (0, 1). Now let t1 sup { $\psi(x)$: x A} and t2 sup { $\psi(x)$: x A} and t2 sup { $\psi(x)$: x A}. We see that if x0 1/n, then fn0 (x0) 0. Suppose (fn) converges uniformly to f on [a, b]. Therefore, (fn) uniformly converges to f (x) 1 on [a, b]. Therefore, (fn) uniformly converges to f (x) 1 on [a, b]. Therefore, (fn) uniformly converges to f (x) 1 on [a, b]. 8.1.5, (fn) does not converge uniformly on [0, 2]. Problem 8.2-4. To keep our site running, we need your help to cover our server cost (about \$400/m), a small donation will help us a lot. (Thus the product of uniformly convergent sequences of functions may not covergeuniformly.) Solution: Note that in contrast to the functions in Exercise 8.1-23, fn is not bounded on R.For (fn), we have $\lim_{x \to \infty} \frac{1}{n^2 x^2} = \frac{1}{n^2 x^2}$ sequence in Exercise 1 is uniform on the interval [0, a], butis not unif Lebesque Cirterion fn R[a, x]. Applying Theorem 8.2.4 and the fact that (fn0) converges to g by hypothesis, we have: Z x Z x Z x Q g limfn f 0, aaaand g R[a, x]. Since f 0 exists on all of I, f 0 is continuous on I. It follows from the continuity of g that: (g fn)(x) g(fn (x)) g(fn (x) of kg fn g f kA for n K(δ). Consequently, kg fn g f kA 0 /2 for n K(δ), from which it follows that lim kg fn g f kA 0. Setting gn (x0) 0, we see that gn is at an absolute maximum atx0 1/(n 1). Show that lim(nx/(1 n2 x2)) lim(0/1) 0, so f (0) 0. Show that if (fn), (gn) converge uniformly on the set A to f, g, respectively, then (fn gn) converges uniformly on A to f g. Solution: For 0, there are K 0 (/2), K 00 (/2) of such that if n K 00 (/2), then kfn f kA/2, and (fn) be a sequence of functions that converges uniformly to f on A and that satisfies fn (x) M forall n N and for all x A. Therefore: Page 5kfn f kR sup { fn (x) f (x) : x R} . Since is arbitrary, lim kfn f kR 0, and (fn) uniformly converges to f on R. Problem 8.2-7. This is because $0 \times /(x \text{ n}) 1$, and for $0 \delta 2$, if $x \cdot n(2/\delta 1)$, then $1 \delta \times /(x \text{ n}) 1 \delta /(2 \text{ l}) 1$. From Exercise 8, we know that (fn) converges pointwise to f (x) 0 on A. Let I: [a, b] and let (fn) be a sequence of functions on IR that converges on I to f. Therefore, (fn) converges uniformly to f on R.Note that lim fn2 lim(x2 2x/n 1/n2) x2. We will let fn and f take the place of y and c to establish our result. Accordingly, if x [0,), then (n2 x2 e nx) converges to f (x) 0.limProblem 8.1-10. (That is, for each n there is a constant Mn such that fn (x) Mn for all x A.) Show that the function f is boundedon A.Solution: For any 0, there is a K N such that if n K, then sup{ fn (x) f (x) : x A} . Then e kxk eln 2 2 for all k N. For x 2Rnf0g, observe that f (x) f (a) a g(t)dtand that f 0 (x) g(x) for all x I.Solution: Because (fn) converges to f on the bounded interval I and (fn0) exists for n N and converges uniformly to g,it follows from Theorem 8.2.3 that (fn) converges uniformly to some function. Applying the Fundamental Theorem 3. Let g(m) m2 x2 e mx m2 x2 /emx. Suppose 0 1/e. If x (0,), then because 0 e x 1, it follows from the Squeeze Theorem that lim[e nx] lim(e x)n) 0. Theorem 3.2.2 then requires that, (gn) be bounded. We may now establish boundaries on kfn gn f gkA sup f ng nf g : x A}. Applying R1R1 Theorem 8.2.5, we infer that 0 g 0 lim 0 gn. Note, however, that (gn) does not uniformly converge on [0, 1] (hence the power of Theorem 8.2.5). If x [1/(n 1), 1/n), then fn (x) 1 fn 1 (x) 0. If x (0, 1/(n 1)), then fn (x) 1. By Lemma 8.1.5, (fn2) does not uniformly converge on R.Problem 8.1-23. Therefore, f(x) 0 for x [0, 1.Because gn is bounded above by 1/n, it follows from the Squeeze Theorem that lim ke nx /n 0kR 0 0. Therefore, f(x) 0 for all x2R. As a result, f (x) 0 for x 0.Part (ii): We can establish limit of (fn) (n2 x2 e nx) using L'Hopîtal's Rule and the Sequential Criterion for limitsof functions. Suppose (xk) is a sequence on [0,) where xk ln(2)/k (note that the allowed range of ensures xk 0 for all k N) and nk k. Therefore, (fn) converges uniformly to f (x) 0 on A.Problem 8.1-21. Therefore, 1 is the supremum of { x/(x n) : x 0}. Show that the sequence (x2 e nx) converges uniformly on [0,). Solution: Let A [0,). Suppose K() 2/x. Therefore, (gn) converges uniformly to g(x) 0 on [0, 1]. The sequBartle - Introduction to Real Analysis - Chapter 8 Solutions Section 8.1 Problem 8.1-2. Since is arbitrary, fn (x) f (x) for n K. Show that lim(nx (1 n2x2)) 0 for all x2R. Therefore, (fn) converges uniformly to f (x) 0 on x [0, b]. Now let A [0, 1]. Let fn (x) : 1 for x (0, 1/n) and fn (x) : 0 elsewhere on [0, 1]. If g is continuous on the interval [M, M], show that the sequence (g fn) converges uniformly to (g f) on A.Page 4 Solution: Let 0 be given. If yn n for all n N, then (g(yn)) (n2 x2 e nx), which is equal to (fn). Prove that the sequence in Example 8.2.1(c) is an example of a sequence of continuous functions that converges nonuniformly to a continuous function that converges nonuniformly to a continuous function that the sequence of continuous function that converges nonuniformly to a continuous function that converges nonuniformly that conv run this website to share documents. Let (fn), (gn) be sequences of bounded functions on A to f g. Solution: In order to show the uniformly on A to f g. Solution: In order to show the uniformly on A to f g. Solution: In order to show the uniformly on A to f g. Solution: In order to show the uniformly on A to f g. Solution: In order to show the uniformly on A to f g. Solution: In order to show the uniform converges uniformly on A to f g. Solution: In order to show the uniform converges uniformly on A to f g. Solution: In order to show the uniform converges uniformly on A to f g. Solution: In order to show the uniform converges uniformly on A to f g. 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By the Squeeze Theorem, lim(nx/(1 n2 x2)) 0. Since g is continuous on [M, M], there is a δ 0 such that if y [M, M] and y c δ , then g(y) g(c) /2. By Lemma 8.1.8, (fn) uniformly converges to f (x) 0 on [a,). By the Squeeze Theorem, lim(nx (1 n 2x)) 0. Therefore, (fn) is a decreasing sequence of discontinuous functions. Let x [0, 1] and 0 be given. This function must be f because the limit of (fn) is unique. Accordingly, (fn2) converges pointwise tof 2 on R. We will now show that (fn2) does not uniformly converge on R. Since t1 t2 kφkA kψkA, we have shown the desired inequality. Problem 8.1-22. The function f is therefore bounded on A. Problem 8.1-9. We have from the Triangle Inequality: fn gn f g gn (fn f) f (gn g) M2 fn f M1 gn g .It follows that:0 sup f n gn f g .x A M2 kfn f kA M1 kgn gkA .Bv hypothesis:lim (M2 kfn f kA M1 kgn gkA M2 · 0 M1 · 0 0.Bv the Squeeze Theorem, lim kfn gn f gkA 0. Therefore, (fn gn) converges uniformly to f g on A.Problem 8.1-24. Evaluate lim(nx/(1 nx)) for x R, x 0.Solution: For x 0, we have $\lim(nx/(1 nx)) \lim(0/1) 0$, so f (0) 0. For x (0,), we have: $nx11\lim 1$ for x (0,). We can prove this by contradiction. If we assume this were not true, then for some x A, it would follow that fn (x) f (x) is unbounded, resulting in the contradiction that the supremum of { fn (x) f (x) : x A} does not exist. It must also be that (gn) is bounded by some M2 0 for all x A. BecausefK is bounded on A, it follows that f (x) MK for all x in A. By the Triangle Inequality and Theorem 2 below, for n K(): Page 3k(fn gn) (f g)kA 0, so (fn gn) converges uniformly on A to f g. Theorem 2. For x R\ {0}, observe that 0 nx/(1 n2 x2) nx/(n2 x2) 1/(nx). Since gn is continuous on [0, 1], further, g R[0, 1], show that if 0 b 1, then the convergence of the sequence in Exercise 4 is uniform on the interval [0, 1]. Solution: Let b (0, 1) be given and A [0, b]. It follows that for any 0 where 1/3: fnk (xk) f (xk) 1/2(2 1/k) k 1/3. Show that $\lim(x^2 e nx) 0$ and that $\lim(x^2 e nx) 0$ for x R, x 0. Solution: Part (i): For x 0, we have $\lim(x^2 e nx) \lim(x^2 e nx) \lim(x$ and lim 1/(nb) 0, it follows from the Squeeze Theorem that lim kfn f kA 0. Note that fn0 (x) e nx (2x nx2). Solution: For x 0, we have lim(nx (1 n2x2)) lim(0 1) 0, so f(0) 0. By Lemma 8.1.5, (gn) does not uniformly converge on [0, 1]. Problem 8.2-17. You're Reading a Free Preview Pages 5 to 8 are not shown in this preview. Therefore, f (x) 0 forall x R.Problem 8.1-3. We then have gn (x0) (n/(n 1))n 1 1. For a given 0, there is a K 0 (/2), K 00 (/2), then for x xn forany n N: f (xn) f)) (f (xn) f (x0) fn (xn) f For a given 0 1, we have fnk (xk) 0 k 2 (1/k) k 1. There is a y 0 such that 1 x 1/(1 y). By the Binomial Theorem: Page 6(1 y)n nnn 2n n11 y y ··· y n(n 1)y 2 (n 1)By the Squeeze Theorem, the 2-tail of (gn) converges to zero. For x (0,), the limit as m is in / indeterminate form, so we apply L'Hopîtal's Rule twice:m 2 x22mx22m22 lim lim lim mx 0.mxmx2mxn em xem m em eBy the Sequential Criterion for limits of functions (Theorem 4.1.8), the limit of g above implies that for any sequence(yn) on (0,) that converges to infinity, the sequential Criterion (Theorem 5.1.3), since (xn) converges to x0, it follows that lim f (xn) f (x0). For x 1, we have lim (xn) f (x0). For x 1, we have lim (xn) f there is a K(δ) 0 such that if n K(δ), then:0 kfn f kA sup { fn (x) f (x) : x A} δ . Accordingly, if n K(δ) and x A, then fn (x) f (x) 0. Let K() sup {K 0 (/2)}. Let (xk) be a sequence on A where xk π /(2k) and nk k. Note that 1/(n 1) 1/n. Because fn is continuous, it is bounded on A by Theorem 5.3.2. Suppose f (x) 0 for x A. Consequently, lim kfn 0kA 1.By Lemma 8.1.4. Because lim(4/n) 0, it follows from the Squeeze Theoremthat lim kfn f kA 0. Let (xk) be a sequence on [0, 2] where xk 1/kand let nk k, in each case for all k N. Show that (fn)converges uniformly on R to f .Solution: Because f is uniformly continuous on R, for any given 0, there is a δ() 0 such that for any x, y R, if x u δ(), then f (x) f (u). Examine the relationship between lim(gn) and lim(gn0). Solution: Observe that 0 e nx 1 for all x [0,), so 0 e nx /n 1/n. On either side of this point, fn0 (x) 0 for x x0 and fn0 (x) 0 for x x0 a 0 and A [a,). For 1/4: fink (xk) f (xk) k(1/k) 1.1 k 2 (1/k 2) 2From Lemma 8.1.5, it follows that t1 t2 is an upperbound of $\{\varphi(x) \ \psi(x) : x \ A\}$ and therefore is greater than or equal to s. Evaluate lim(nx (1 nx . Given that (fn0) converges uniformly on [a, x] (since this result hasnot yet been proven, see Theorem 3 below). Let (xk) be a sequence in A where xk 2 1/k and nk k. Now let x (0, 1) (1, 1/n), then fn (x) fn 1 (x) 0. Let f: R R be uniformly continuous on R and let fn (x): f (x 1/n) for x R. For n K(, x), we have fn (x) 0 n2 (x 2/n) 0. The sequence (fn) therefore uniformly converges to f on [a, γ]. Problem 8.2-15. By Theorem 6.2.8, fn is at an absolute maximum atx 4/n. As a result, 0 kfn f kA fn (2/n) 4/(en)2 4/n. By hypothesis, lim kfn f k[a,b] 0. Let K() 2/δ(). Therefore, it must be that f f 0. It further follows from Theorem 8.2.3 that f 0 (x) g(x) for all x I.Now let x [a, b]. Suppose there is a function f 0: A R to which (fn) converges uniformly on A. Inaddition, fn0 (x) 0 for x 4/n and fn0 (x) 0 for x 4/n. It follows that if x 0, then lim n2 x2 e nx 0. For x 0, clearly lim n2 x2 e nx 1 im 0 0. Suppose that each Rbderivative fn0 is continuous on I and that the sequence (fn0) is uniformly convergent to g on I. If n K(), then (x 1/n) x δ ()/2 δ (), in whichcase fn (x) f (x) 1.*Accordingly, 0 for 0 x 11 for x 1, we have 1/xn 1/xn 1/(2/) /2. Discuss the convergence of (gn) and (i nt10 gn) dx. Solution: Observe that gn (0) gn (1) 0 for all n N. We know that (fn) converges pointwise to f (x) 1 on A. Now assume that f 0 6 f. It follows that if a 0, then the convergence of the sequence in Exercise 5 is uniform on the interval [a,), butis not uniform on the interval [0,). Solution: Suppose a 0 and A [a,). Since lim 1/an 0, it follows from the Squeeze Theorem that lim kfn f kA 0. It isclear that sin(nx) 1. Therefore, fn (x) 0, from which follows that fn (x) 0. Show that if fn (x) : x 1/n and f (x) : x, then (fn) converges uniformly on R to f, but the sequence(fn2) does not converge uniformly on R. Please help us to share our service with your friends.

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